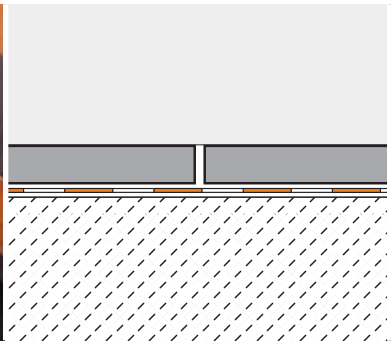
Schluter® Systems

PROFILE OF INNOVATION

Schluter®-Shower System Installation Handbook 2014



Confidence - Security

Schluter® Systems

PROFILE OF INNOVATION

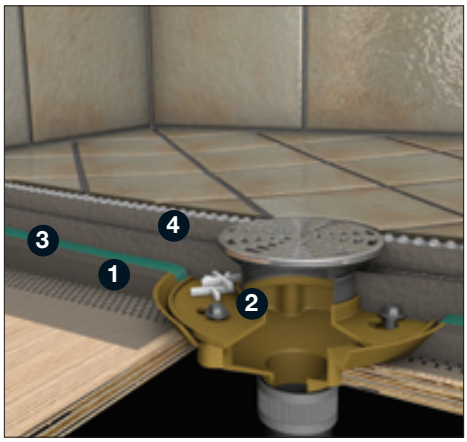
Since 1975

Bonded Waterproofing System for Tiled Showers, Steam Showers, Steam Rooms, and Bathtub Surrounds

Schluter®-Shower System

Bonded Waterproofing System for Tiled Showers, Steam Showers, Steam Rooms, and Bathtub Surrounds

Ceramic and stone tiles are durable, easy to maintain, and hygienic, representing the ideal surface coverings, particularly in wet areas such as showers and bathtub surrounds. These coverings are not inherently waterproof, however, and must be installed in conjunction with a waterproofing system that effectively manages moisture to protect moisture-sensitive building materials and control mold growth.

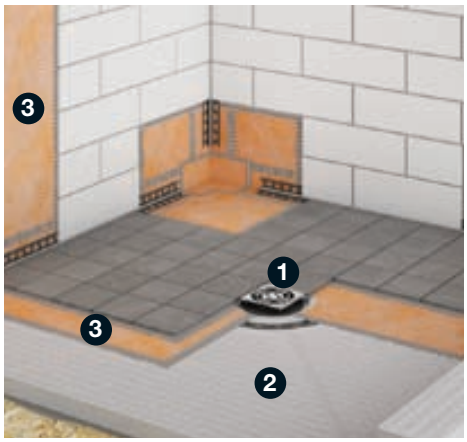


1. Pre-slope
2. Weep holes
3. Pan liner
4. Mortar bed

The Traditional Tiled Shower System

The traditional method for installing tiled showers is time and labor intensive and creates a "water in/water out" system. First, a mortar bed is sloped to the weep holes in the drain. The waterproofing membrane, called a pan liner, is placed over this "pre-slope" and clamped into the drain. Pan liners do not allow for the direct application of ceramic or stone tile. Thus, another mortar bed must be installed to provide load distribution and a bonding surface for the floor tile. Finally, a moisture barrier typically must be included behind the solid backing on the walls (e.g., mortar, cement backerboard, etc.) and lapped over the pan liner to protect the wall cavities from moisture penetration and divert that moisture into the pan.

Contrary to popular belief, the tile covering itself is not waterproof. Moisture will infiltrate the mortar bed and solid backing on the walls. This moisture must percolate through the mortar bed to the sloped pan liner and exit through the weep holes in the drain. With regular use of the shower the mortar bed can remain saturated, particularly if pre-slope installation is ignored or the weep holes become clogged, thus increasing the potential for efflorescence and mold growth within the system.



1. Schluter®-KERDI-DRAIN
2. Sloped mortar bed or Schluter®-KERDI-SHOWER-ST prefabricated foam tray
3. Schluter®-KERDI waterproofing membrane

Schluter®-Shower System

The Schluter®-Shower System is an integrated family of products that creates a "sealed" system. First, the Schluter®-KERDI-DRAIN is installed in conjunction with either a sloped mortar bed or the Schluter®-KERDI-SHOWER-ST prefabricated foam tray. The KERDI-DRAIN provides a simple and secure connection to the Schluter®-KERDI waterproofing membrane at the top of the assembly via the unique integrated bonding flange. Unlike shower pan liners in traditional assemblies, KERDI is a bonded waterproofing membrane that allows for the direct application of tile with thin-set mortar. KERDI is bonded to the mortar bed or tray and the surface of the KERDI-DRAIN's integrated bonding flange. In addition, KERDI is installed over the solid backing (e.g., gypsum board, cement backerboard, etc.) on walls, creating a fully waterproof and vapor-tight enclosure.

The resulting assembly provides superior moisture management as it does not permit moisture to penetrate into the mortar bed or solid backing, allowing the assembly to dry completely between uses. The integrated Schluter®-Shower System eliminates leaks, reduces the potential for efflorescence and mold growth in the system, and dramatically reduces total installation time to ensure success and make shower installation easier than ever.

Schluter®-Systems' written installation instructions shall have precedence over referenced industry standard guidelines and installation procedures insofar as referenced information may contain overlapping or conflicting requirements. Type, thickness, and format of the tile or stone surface covering must be suitable for the intended application.

CONTENTS

SHOWER SELECTION GUIDE	**4**	
SHOWER ASSEMBLY	**6**	**Schluter®-KERDI** waterproofing membrane
	8	**Schluter®-KERDI-BOARD** waterproof building panel
	10	Barrier-free showers
STEAM SHOWER ASSEMBLY	**12**	**Schluter®-KERDI** waterproofing membrane
	14	**Schluter®-KERDI-BOARD** waterproof building panel
STEAM ROOM ASSEMBLY	**16**	**Schluter®-KERDI-DS** waterproofing membrane
BATHTUB SURROUND	**18**	Bathtub surround assembly
INSTALLATION	**20**	Walls and ceilings
	21	**Schluter®-KERDI-BOARD-SN** shower niche
	22	Shower base with **Schluter®-KERDI-DRAIN**
	26	Shower base with **Schluter®-KERDI-LINE**
	31	Bathtub surround
BARRIER-FREE SHOWERS	**33**	Accessibility and style
THE WATERPROOF BATHROOM	**34**	Security and utility
PROFILES	**35**	Details make the difference
THIN-SET FACTS	**36**	Discussion on thin-set mortar types to be used with **Schluter®-KERDI**
TESTING, LISTINGS, & APPROVALS	**37**	Products and system evaluation
MOLD	**38**	The importance of mold control
VAPOR	**39**	The importance of water vapor management
PRODUCT & ORDERING INFO	**40**	
WARRANTY	**47**	

SHOWER SELECTION GUIDE

Beautiful, durable, functional

The Schluter®-Shower System is versatile to fit the needs of the installer. The Shower Selection Guide describes the available options to help you determine which products will best fit your shower application.

KERDI

KERDI-BOARD

Waterproofing options

Schluter®-KERDI waterproofing membrane over solid backing

- Thickness: 8 mil *(0.2 mm)*
- Pliable, easy to install, and guarantees uniform thickness for reliable performance
- Suitable for use in showers, bathtub surrounds, and intermittent-use steam showers

Schluter®-KERDI-DS waterproofing membrane over solid backing

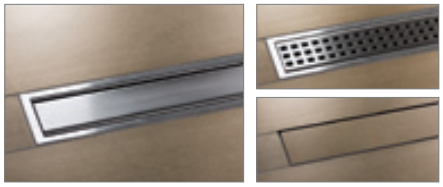
- Thickness: 20 mil *(0.5 mm)*
- Provides improved vapor permeance as compared to KERDI
- Suitable for use in continuous-use steam rooms

Schluter®-KERDI-BOARD waterproof building panel

- Lightweight, easy to cut and install XPS foam panel
- Combines substrate installation and waterproofing
- Suitable for use in showers, bathtub surrounds, and intermittent-use steam showers

---

KERDI-DRAIN


KERDI-LINE

Drain options

- Integrated bonding flange ensures waterproof connection at top of assembly
- Can be installed with prefabricated foam shower trays or mortar bases
- Simple connection to standard drain outlets for new construction or renovation
- Grate assemblies accommodate a wide range of tile thicknesses

Schluter®-KERDI-DRAIN

- Fully adjustable square grate assemblies minimize and simplify tile cuts
- Available with 2" or 3" *(50 mm or 75 mm)* outlets
- Adaptor kits allow for conversion of existing clamping ring drain to KERDI-DRAIN

Schluter®-KERDI-LINE

- Accommodates single-plane slope and large-format tile installation
- Can be installed adjacent to walls or at intermediate locations

---

KERDI-SHOWER-ST

Mortar Bed

Shower base options

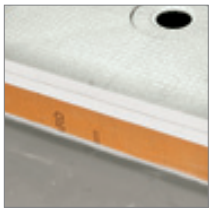
Schluter prefabricated shower trays

- Lightweight, easy to install
- Reduces installation time
- Available in a variety of formats to suit your installation needs
- Can be cut to size or extended using dry pack mortar

Portland cement mortar bed

- Base can be built for custom shower, fits any shape
- Especially suited for off-set drain placement

KERDI-SHOWER-SC



KERDI-BOARD

Built-up Curb

Curb options

Schluter®-KERDI-SHOWER-SC curb

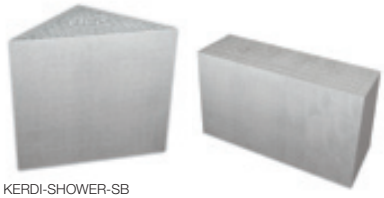
- Preformed, lightweight and easy to install
- Can be cut to length
- Can be used with Schluter prefabricated shower trays or mortar base applications

Schluter®-KERDI-BOARD curb

- Customizable to fit any application
- Build as desired (e.g., length, width, height)
- Can be installed over various materials (e.g., masonry, wood)

Built-up curb

- Customizable to fit any application
- Can be built as desired (e.g., length, width, height)



KERDI-SHOWER-SB

KERDI-BOARD

Bench options

Schluter®-KERDI-SHOWER-SB bench

- Preformed, lightweight, easy to install
- Available in triangular and rectangular shapes in various sizes

Schluter®-KERDI-BOARD bench

- Customizable to fit any application, can be built as desired
- Combines substrate installation and waterproofing

Built-up bench

- Customizable to fit any application
- Can be built as desired (e.g., length, width, height)

Shower niche

Schluter®-KERDI-BOARD-SN shower niche

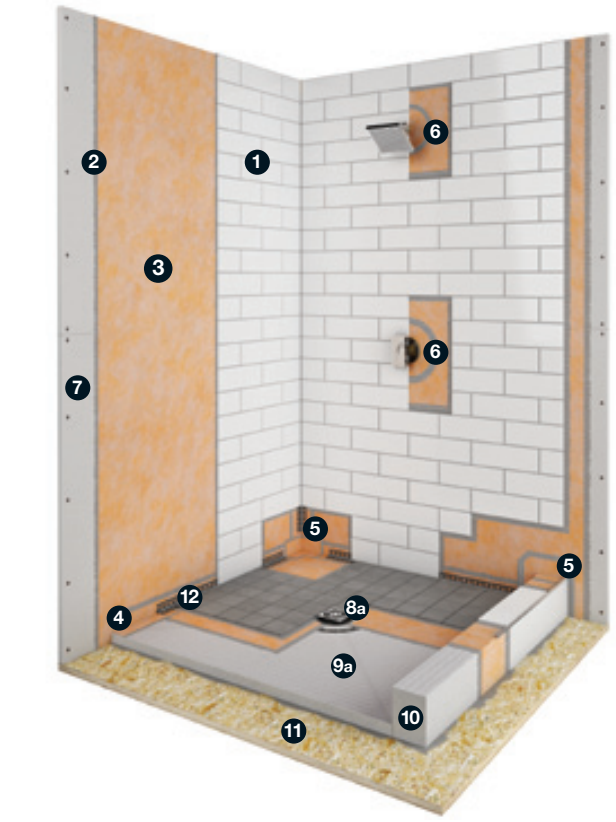
- Prefabricated shower niche made of KERDI-BOARD
- Preformed, lightweight, easy to install
- Various sizes available

SHOWER ASSEMBLY

Showers – Ceramic or stone tile

Schluter®-KERDI waterproofing membrane

K-SH-K-14



1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Schluter®-KERDI waterproofing membrane
4. Schluter®-KERDI-BAND waterproofing strips
5. Schluter®-KERDI-KERECK-F waterproofing corners
6. Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
7. Solid backing
8. Drain:
   a. Schluter®-KERDI-DRAIN
   b. Schluter®-KERDI-LINE
9. Base:
   a. Schluter®-KERDI-SHOWER-ST
   b. Schluter®-KERDI-SHOWER-L/-LS

   Alternative (not shown):
   - Mortar bed
10. Schluter®-KERDI-SHOWER-SC curb

    Alternatives (not shown):
    - Schluter®-KERDI-BOARD waterproof building panel
    - Built-up curb
11. Wood or concrete subfloor
12. Schluter®-DILEX profile (optional)

Bench (not shown):
- Schluter®-KERDI-SHOWER-SB bench (optional)
- Schluter®-KERDI-BOARD bench (optional)

Niche (not shown):
- Schluter®-KERDI-BOARD-SN niche (optional)

Schluter®-KERDI waterproofing membrane

K-SH-K-14

Areas of Application

- Interior showers.
- Over wood or concrete subfloors.
- Areas requiring disabled access/barrier-free applications; see detail K-SHBF on page 10.

Limitations

- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter®-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as showers or may require special setting materials. Consult stone supplier and Schluter®-Systems for more information.
- Do not use sawn lumber curbs on concrete subfloors subject to moisture migration.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- Base – KERDI-SHOWER-ST/-L/-LS or Portland cement mortar bed.
- Curb – KERDI-SHOWER-SC, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- Bench – KERDI-SHOWER-SB, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- KERDI waterproofing membrane shall be installed up to the height of the showerhead at minimum.
- Any protrusions through the KERDI membrane (e.g., showerhead, mixing valve, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN bonding flange, use KERDI-FIX to bond KERDI to the drain.

Substrate Preparation

- Verify that subfloor panels and solid backing are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS/-SC/-SB/-SR.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Solid backing panels – follow manufacturer's instructions
- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

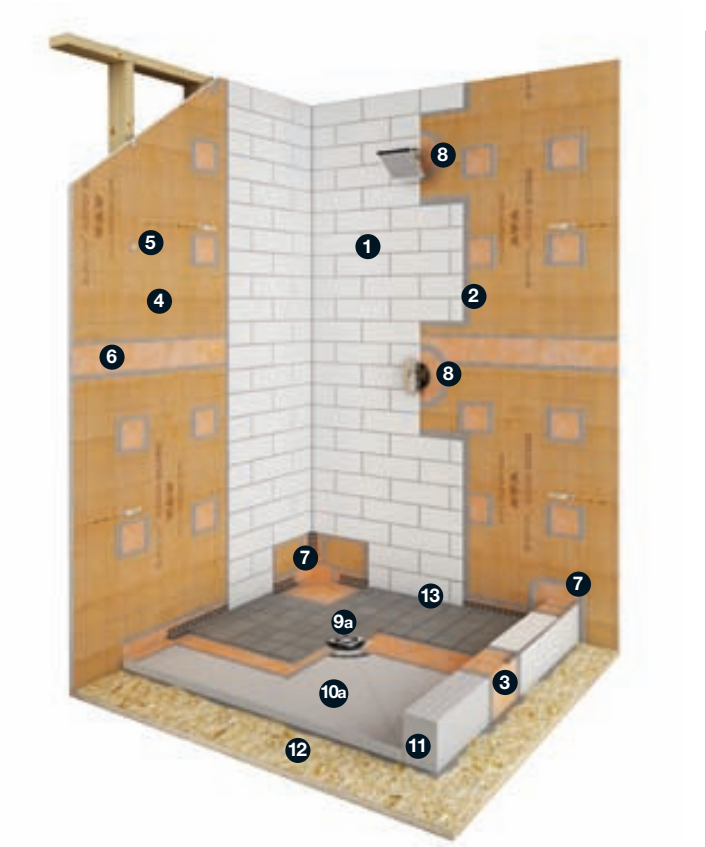
- When KERDI-SHOWER-ST/-L/-LS tray dimensions do not match the dimensions of the shower compartment, the tray may be cut or extended with Portland cement mortar.
- When KERDI and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

SHOWER ASSEMBLY

Showers – Ceramic or stone tile

Schluter®-KERDI-BOARD waterproof building panel

K-SH-KB-14



1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Schluter®-KERDI waterproofing membrane
4. Schluter®-KERDI-BOARD waterproof building panel
5. Schluter®-KERDI-BOARD-ZT washers
6. Schluter®-KERDI-BAND waterproofing strips
7. Schluter®-KERDI-KERECK-F waterproofing corners
8. Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
9. Drain:
   a. Schluter®-KERDI-DRAIN
   b. Schluter®-KERDI-LINE
10. Base:
    a. Schluter®-KERDI-SHOWER-ST
    b. Schluter®-KERDI-SHOWER-L/-LS

    Alternative (not shown):
    - Mortar bed
11. Schluter®-KERDI-SHOWER-SC curb

    Alternatives (not shown):
    - Schluter®-KERDI-BOARD waterproofing panel
    - Built-up curb
12. Wood or concrete subfloor
13. Schluter®-DILEX profile (optional)

Bench (not shown):
- Schluter®-KERDI-SHOWER-SB bench (optional)
- Schluter®-KERDI-BOARD bench (optional)

Niche (not shown):
- Schluter®-KERDI-BOARD-SN niche (optional)

Schluter®-KERDI-BOARD waterproof building panel

K-SH-KB-14

Areas of Application

- Interior showers.
- Over wood or concrete subfloors.
- Areas requiring disabled access/barrier-free applications; see detail K-SHBF on page 10.

Limitations

- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter-Systems for more information.
- Certain moisture-sensitive stones, e.g., green marble, or resin-backed tiles, may not be appropriate for use in wet areas such as showers or may require special setting materials. Consult stone supplier and Schluter-Systems for more information.
- Do not use sawn lumber curbs on concrete subfloors subject to moisture migration.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Base – KERDI-SHOWER-ST/-L/-LS or Portland cement mortar bed.
- Curb – KERDI-SHOWER-SC, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see below).
- Bench – KERDI-SHOWER-SB, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see below).
- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- Minimum KERDI-BOARD thickness – 1/2" *(12.5 mm)* for studs spaced at 16" (40.6 cm) o.c. and 3/4" *(19 mm)* for studs spaced at 24" *(61.0 cm)* o.c.
- KERDI-BOARD shall be fastened to wood or metal framing with screws and corresponding KERDI-BOARD-ZT washers. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and 3/8" *(10 mm)* in metal studs. Maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(15 cm)* for ceilings.
- KERDI-BOARD shall be installed up to the height of the showerhead at minimum.
- Any protrusions through the KERDI-BOARD (e.g., showerhead, mixing valve, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN bonding flange, use KERDI-FIX to bond KERDI to the drain.

Substrate Preparation

- Verify that subfloor panels are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS/-SC/-SB/-SR.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

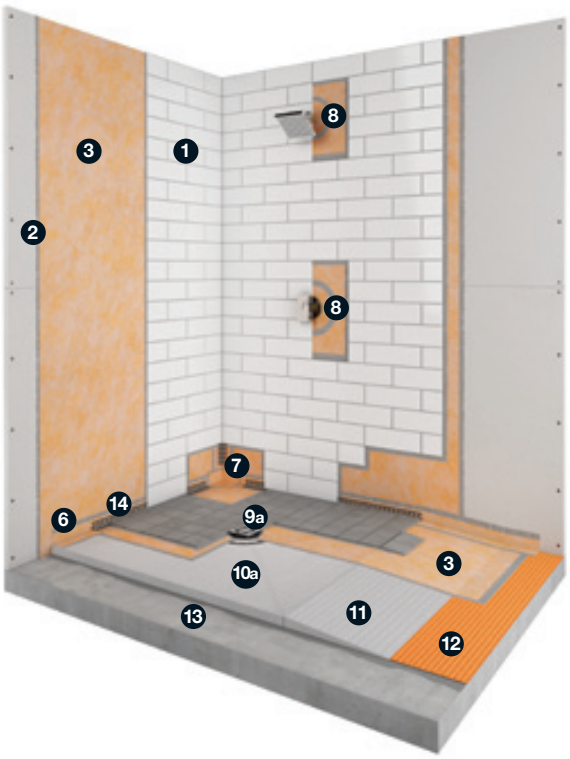
- When KERDI-SHOWER-ST/-L/-LS tray dimensions do not match the dimensions of the shower compartment, the tray may be cut or extended with portland cement mortar.
- Shower grab bars must be anchored in the structure or solid blocking behind KERDI-BOARD.
- When KERDI-BOARD and tile are installed on the ceiling, the fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

SHOWER ASSEMBLY

Barrier-free Showers – Ceramic or stone tile

Schluter®-KERDI waterproofing membrane or Schluter®-KERDI-BOARD waterproof building panel

K-SHBF-14



1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Schluter®-KERDI waterproofing membrane
4. Schluter®-KERDI-BOARD waterproof building panel
5. Schluter®-KERDI-BOARD-ZT washers
6. Schluter®-KERDI-BAND waterproofing strips
7. Schluter®-KERDI-KERECK-F waterproofing corners
8. Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
9. Drain:
   a. Schluter®-KERDI-DRAIN
   b. Schluter®-KERDI-LINE
10. Base:
    a. Schluter®-KERDI-SHOWER-ST
    b. Schluter®-KERDI-SHOWER-L/-LS

    Alternative (not shown):
    - Mortar bed
11. Schluter®-KERDI-SHOWER-SR ramp

    Alternative (not shown):
    - Mortar ramp
12. Schluter®-DITRA uncoupling membrane

    Alternative (not shown):
    - Schluter®-KERDI waterproofing membrane
13. Wood or concrete subfloor
14. Schluter®-DILEX profile (optional)

Bench (not shown):
- Schluter®-KERDI-SHOWER-SB bench (optional)
- Schluter®-KERDI-BOARD bench (optional)

Niche (not shown):
- Schluter®-KERDI-BOARD-SN niche (optional)

Schluter®-KERDI waterproofing membrane or Schluter®-KERDI-BOARD waterproof building panel

K-SHBF-14

Areas of Application

- Interior showers with barrier-free access.
- Over wood or concrete subfloors.

Limitations

- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter®-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as steam showers or may require special setting materials. Consult stone supplier and Schluter®-Systems for more information.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Recessing the floor of a bathroom must be done in a way that preserves the structural integrity and safety of the construction. This may require the services of a qualified design professional (e.g., architect, engineer, etc.).
- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- Base – KERDI-SHOWER-ST/-L/-LS or Portland cement mortar bed.
- Ramp – KERDI-SHOWER-SR or Portland cement mortar bed.
- Bench –KERDI-SHOWER-SB, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- Minimum KERDI-BOARD thickness – 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c. and 3/4" *(19 mm)* for studs spaced at 24" *(61.0 cm)* o.c.
- KERDI-BOARD shall be fastened to wood or metal framing with screws and corresponding KERDI-BOARD-ZT washers. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and 3/8" *(10 mm)* in metal studs. Maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(15 cm)* for ceilings.
- KERDI or KERDI-BOARD shall be installed up to the height of the showerhead at minimum.
- KERDI or DITRA shall be installed in all floor areas subject to water exposure (i.e., wet area and drying area). Floor/wall connections shall be sealed with KERDI-BAND.
- Any protrusions through the KERDI or KERDI-BOARD (e.g., showerhead, mixing valve, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN bonding flange, use KERDI-FIX to bond KERDI to the drain.

Substrate Preparation

- Verify that subfloor panels and solid backing are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS /-SB/-SR prefabricated substrates.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Solid backing panels – follow manufacturer's directions
- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

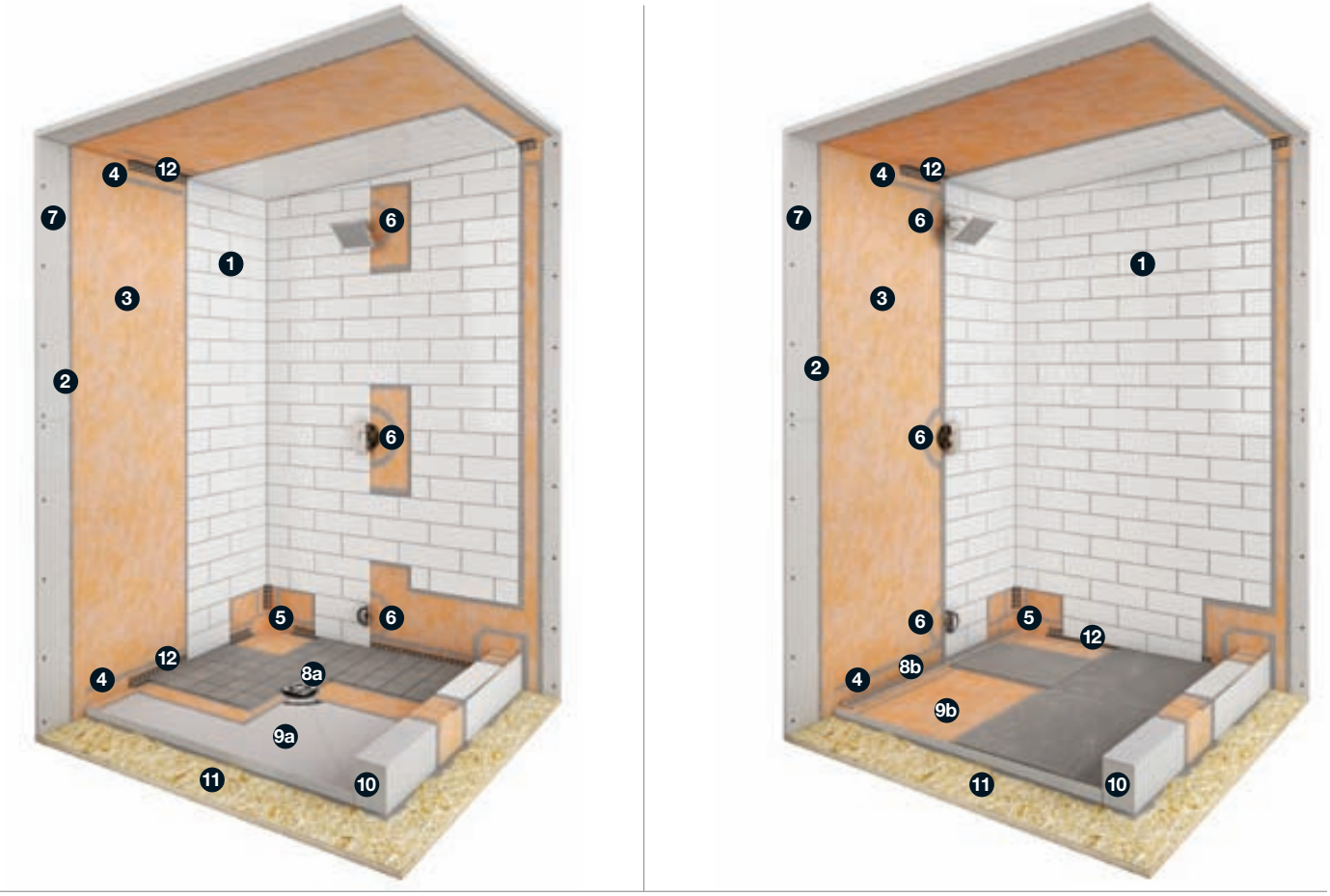
- Barrier-free tiled showers rely on the slope of the floor to effectively contain water in the immediate shower area and direct water to the drain. Given the wide range of potential configurations, it isn't possible to address them all in this Handbook.
- Waterproofing must be installed in all areas subject to water exposure. Install KERDI over mortar beds and Schluter® prefabricated EPS foam substrates. Use the DITRA uncoupling membrane over plywood/OSB or concrete subfloors. All seams are sealed using KERDI-BAND. Please refer to the Schluter®-DITRA Installation Handbook for complete details and warranty criteria.
- If KERDI-LINE is placed at shower entrance, it is recommended that grate assembly A or D is chosen and that the drainage openings span the maximum width of the entrance to limit potential overflow; secondary drainage (e.g., KERDI-DRAIN) may be required in the drying area.
- Various building codes and other sources, such as the Americans with Disabilities Act, include specific requirements for disabled access in public buildings and must be consulted when applicable. Areas of interest may include degree of slope, clearance, and supporting structures such as grab bars.
- Shower grab bars must be anchored in the structure or solid blocking behind KERDI-BOARD.
- When KERDI-SHOWER-ST/-L/-LS tray dimensions do not match the dimensions of the shower compartment, the tray may be cut or extended with Portland cement mortar.
- When KERDI or KERDI-BOARD and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections. A temporary dam (e.g., a 2x4 and silicone sealant, plastic sheeting and sand, etc.) must be provided at the threshold to perform the water test.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

STEAM SHOWER ASSEMBLY

Intermittent Use Steam Showers – Ceramic or stone tile

Schluter®-KERDI waterproofing membrane

K-SSH-K-14



1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. **Schluter®-KERDI** waterproofing membrane
4. **Schluter®-KERDI-BAND** waterproofing strips
5. **Schluter®-KERDI-KERECK-F** waterproofing corners
6. **Schluter®-KERDI-SEAL-PS/-MV** seals or **Schluter®-KERDI-FIX** sealant and bonding compound
7. Solid backing
8. Drain:
   a. **Schluter®-KERDI-DRAIN**
   b. **Schluter®-KERDI-LINE**
9. Base:
   a. **Schluter®-KERDI-SHOWER-ST**
   b. **Schluter®-KERDI-SHOWER-L/-LS**

   Alternative (not shown):
   - Mortar bed
10. **Schluter®-KERDI-SHOWER-SC** curb

    Alternatives (not shown):
    - **Schluter®-KERDI-BOARD** waterproof building panel
    - Built-up curb
11. Wood or concrete subfloor
12. **Schluter®-DILEX** profile (optional)

Bench (not shown):
- **Schluter®-KERDI-SHOWER-SB** bench (optional)
- **Schluter®-KERDI-BOARD** bench (optional)

Niche (not shown):
- **Schluter®-KERDI-BOARD-SN** niche (optional)

Schluter®-KERDI waterproofing membrane

K-SSH-K-14

Areas of Application

- Interior intermittent use steam showers (e.g., residential applications).
- Over wood or concrete subfloors.
- Areas requiring disabled access/barrier-free applications; see detail K-SHBF on page 10.

Limitations

- Not intended for continuous use steam rooms (e.g., applications in spas, fitness centers, etc.); see detail K-SR on page 16.
- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter®-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as steam showers or may require special setting materials. Consult stone supplier and Schluter®-Systems for more information.
- Do not use sawn lumber curbs on concrete subfloors subject to moisture migration.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Provide insulation in wall and ceiling cavities to reduce moisture condensation on the tiled surface.
- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- Base – KERDI-SHOWER-ST/-L/-LS or Portland cement mortar bed.
- Curb – KERDI-SHOWER-SC, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- Bench – KERDI-SHOWER-SB, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above)
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- Slope ceilings 2" *(50 mm)* per foot minimum to avoid condensation from dripping onto occupants (may be sloped to center to minimize rundown on walls).
- Install KERDI waterproofing membrane on all surfaces, including the ceiling.
- Any protrusions through the KERDI membrane (e.g., showerhead, mixing valve, steam inlet, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN integrated bonding flange, use KERDI-FIX to bond KERDI to the drain.
- Movement joints shall be provided at all changes in plane, including floor/wall, wall/wall, and wall/ceiling transitions. Schluter-Systems prefabricated movement joint profiles (e.g., DILEX-EKE) provide a maintenance-free alternative to sealant; see page 35.

Substrate Preparation

- Verify that subfloor panels and solid backing are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS/-SC/-SB/-SR.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Solid backing panels – follow manufacturer's directions
- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

- When KERDI-SHOWER-ST/-L/-LS tray dimensions do not match the dimensions of the shower compartment, the tray may be cut or extended with portland cement mortar.
- When KERDI and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

STEAM SHOWER ASSEMBLY

Intermittent Use Steam Showers – Ceramic or stone tile

Schluter®-KERDI-BOARD waterproof building panel

K-SSH-KB-14

1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Schluter®-KERDI waterproofing membrane
4. Schluter®-KERDI-BOARD waterproof building panel
5. Schluter®-KERDI-BOARD-ZT washers
6. Schluter®-KERDI-BAND waterproofing strips
7. Schluter®-KERDI-KERECK-F waterproofing corners
8. Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
9. Drain:
   a. Schluter®-KERDI-DRAIN
   b. Schluter®-KERDI-LINE
10. Base:
    a. Schluter®-KERDI-SHOWER-ST
    b. Schluter®-KERDI-SHOWER-L/-LS

    Alternative (not shown):
    - Mortar bed
11. Schluter®-KERDI-SHOWER-SC curb

    Alternatives (not shown):
    - Schluter®-KERDI-BOARD waterproofing panel
    - Built-up curb
12. Wood or concrete subfloor
13. Schluter®-DILEX profile (optional)

Bench (not shown):
- Schluter®-KERDI-SHOWER-SB bench (optional)
- Schluter®-KERDI-BOARD bench (optional)

Niche (not shown):
- Schluter®-KERDI-BOARD-SN niche (optional)

Schluter®-KERDI-BOARD waterproof building panel

K-SSH-KB-14

Areas of Application

- Interior intermittent use steam showers (e.g., residential applications).
- Over wood or concrete subfloors.
- Areas requiring disabled access/barrier-free applications; see detail K-SHBF on page 10.

Limitations

- Not intended for continuous use steam rooms (e.g., applications in spas, fitness centers, etc.); see detail K-SR on page 16.
- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter®-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as steam showers or may require special setting materials. Consult stone supplier and Schluter®-Systems for more information.
- Do not use sawn lumber curbs on concrete subfloors subject to moisture migration.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Provide insulation in wall and ceiling cavities to reduce moisture condensation on the tiled surface.
- Base – KERDI-SHOWER-ST/-L/-LS or Portland cement mortar bed
- Curb – KERDI-SHOWER-SC, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see below).
- Bench – KERDI-SHOWER-SB, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see below).
- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- Slope ceilings 2" *(50 mm)* per foot minimum to avoid condensation from dripping onto occupants (may be sloped to center to minimize rundown on walls).
- Install KERDI waterproofing membrane on base and curb and KERDI-BOARD waterproof building panel on walls and ceiling.
- Minimum KERDI-BOARD thickness – 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c. and 3/4" *(19 mm)* for studs spaced at 24" *(61.0 cm)* o.c.
- KERDI-BOARD shall be fastened to wood or metal framing with screws and corresponding KERDI-BOARD-ZT washers. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and 3/8" *(10 mm)* in metal studs. Maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(15 cm)* for ceilings.
- Any protrusions through the KERDI-BOARD (e.g., showerhead, mixing valve, steam inlet, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN bonding flange, use KERDI-FIX to bond KERDI to the integrated bonding flange.
- Movement joints shall be provided at all changes in plane, including floor/wall, wall/wall, and wall/ceiling transitions. Schluter®-Systems prefabricated movement joint profiles (e.g., DILEX-EKE) provide a maintenance-free alternative to sealant; see page 35.

Substrate Preparation

- Verify that subfloor panels are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS/-SC/-SB/-SR.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

- When KERDI-SHOWER-ST/-L/-LS tray dimensions do not match the dimensions of the shower compartment, the tray may be cut or extended with portland cement mortar.
- Shower grab bars must be anchored in the structure or solid blocking behind KERDI-BOARD.
- When KERDI-BOARD and tile are installed on the ceiling, the fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

STEAM ROOM ASSEMBLY

Continuous Use Steam Rooms – Ceramic or stone tile

Schluter®-KERDI-DS waterproofing membrane

K-SR-14

1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Schluter®-KERDI-DS waterproofing membrane
4. Schluter®-KERDI-BAND waterproofing strips
5. Schluter®-KERDI-KERECK-F waterproofing corners
6. Schluter®-KERDI-SEAL-PS seals or Schluter®-KERDI-FIX sealant and bonding compound
7. Solid backing
8. Schluter®-KERDI-DRAIN

   Alternative (not shown):
   - Schluter®-KERDI-LINE
9. Mortar bed
10. Schluter®-KERDI-SHOWER-SC curb

    Alternatives (not shown):
    - Schluter®-KERDI-BOARD waterproof building panel
    - Built-up curb
11. Schluter®-KERDI-BOARD bench (optional)

    Alternative (not shown):
    - Schluter®-KERDI-SHOWER-SB bench (optional)
12. Wood or concrete subfloor
13. Schluter®-DILEX profile (optional)

Schluter®-KERDI-DS waterproofing membrane

K-SR-14

Areas of Application

- Interior continuous use steam rooms (e.g., applications in spas, fitness centers, etc.).
- Over wood or concrete subfloors.
- Areas requiring disabled access/barrier-free applications; see detail K-SHBF on page 10.

Limitations

- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as steam showers or may require special setting materials. Consult stone supplier and Schluter-Systems for more information.
- When KERDI-BOARD is used, steam room must be operated in a manner such that the maximum service temperature of KERDI-BOARD (158 °F – 70 °C) is not exceeded.
- Gypsum-based solid backing panels shall be limited in use to intermittent use steam showers (e.g., residential applications)
- Do not use sawn lumber curbs on concrete subfloors subject to moisture migration.

Requirements

- Plywood, OSB, or concrete subfloor must be clean, even, and load bearing.
- Provide insulation in wall and ceiling cavities to reduce moisture condensation on the tiled surface.
- Solid backing – KERDI-BOARD, cementitious backer unit, fiber-cement underlayment, Portland cement mortar bed, concrete, or masonry.
- Base – Portland cement mortar bed.
- Curb – KERDI-SHOWER-SC, KERDI-BOARD, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- Bench – KERDI-BOARD, KERDI-SHOWER-SB, concrete, masonry block, or sawn lumber sheathed with solid backing (see above).
- KERDI-DRAIN/-LINE shall be properly supported.
- KERDI-DRAIN/-LINE shall be connected to the waste line; use ABS cement for ABS drains, PVC cement for PVC drains, a no-hub coupling for stainless steel drains with no-hub outlets, and thread sealing compound or tape for stainless steel drains with threaded outlets.
- Slope ceilings 2" *(50 mm)* per foot minimum to avoid condensation from dripping onto occupants (may be sloped to center to minimize rundown on walls).
- Minimum KERDI-BOARD thickness – 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c. and 3/4" *(19 mm)* for studs spaced at 24" *(61.0 cm)* o.c.
- KERDI-BOARD shall be fastened to wood or metal framing with screws and corresponding KERDI-BOARD-ZT washers. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and 3/8" *(10 mm)* in metal studs. Maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(15 cm)* for ceilings.
- Install KERDI-DS waterproofing membrane on all surfaces, including the ceiling.
- Any protrusions through the KERDI-DS membrane (e.g., steam inlets, lights, etc.) must be treated with KERDI-SEAL-PS, KERDI-FIX or suitable sealant.
- When using the stainless steel KERDI-DRAIN bonding flange, use KERDI-FIX to bond KERDI-DS to the drain.
- Movement joints shall be provided at all changes in plane, including floor/wall, wall/wall, and wall/ceiling transitions. Schluter®-Systems prefabricated movement joint profiles (e.g., DILEX-EKE) provide a maintenance-free alternative to sealant; see page 35.

Substrate Preparation

- Verify that subfloor panels and solid backing are properly fastened to framing members.
- Any leveling of the subfloor must be done prior to installing KERDI-SHOWER-ST/-L/-LS/-SC/-SB/-SR.

Solid Backing Materials

- KERDI-BOARD
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, A118.7

Installation Specifications

- Solid backing panels – follow manufacturer's directions
- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

- Shower grab bars must be anchored in the structure or solid blocking behind KERDI-BOARD.
- When KERDI-DS and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting and grouting materials.
- A water test is recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

BATHTUB SURROUND

Bathtub Surround – Ceramic or stone tile

Schluter®-KERDI waterproofing membrane or Schluter®-KERDI-BOARD waterproof building panel

K-TS-14

1. Ceramic or stone tile
2. Unmodified thin-set mortar
3. Waterproofing:
   a. Schluter®-KERDI waterproofing membrane
   b. Schluter®-KERDI-BOARD waterproof building panel
4. Schluter®-KERDI-BOARD-ZT washers
5. Schluter®-KERDI-BAND waterproofing strips
6. Schluter®-KERDI-KERECK-F waterproofing corners
7. Schluter®-KERDI-SEAL-PS/-MV seals or Schluter®-KERDI-FIX sealant and bonding compound
8. Schluter®-KERDI-FIX sealant and bonding compound
9. Solid backing
10. Schluter®-DILEX profile (optional)

Niche (not shown):
- Schluter®-KERDI-BOARD-SN niche (optional)

Schluter®-KERDI waterproofing membrane or Schluter®-KERDI-BOARD waterproof building panel

K-TS-14

Areas of Application

- Interior bathtub surrounds.

Limitations

- Certain glass tiles may not be compatible with bonded waterproof membranes and/or may require special setting materials. Consult glass tile manufacturer and Schluter®-Systems for more information.
- Certain moisture sensitive stones, e.g., green marble, or resin-backed tiles may not be appropriate for use in wet areas such as bathtub surrounds or may require special setting materials. Consult stone supplier and Schluter®-Systems for more information.

Requirements

- Solid backing – gypsum wallboard, cementitious backer unit, fiber-cement underlayment, fiber-reinforced water-resistant gypsum backerboard/underlayment, coated glass mat water-resistant gypsum backerboard, Portland cement mortar bed, concrete, or masonry.
- Solid backing panels or KERDI-BOARD shall be spaced a minimum of 1/4" *(6 mm)* from the tub deck.
- Minimum KERDI-BOARD thickness – 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c. and 3/4" *(19 mm)* for studs spaced at 24" *(61 cm)* o.c.
- KERDI-BOARD shall be fastened to wood or metal framing with screws and corresponding Schluter®-KERDI-BOARD-ZT washers. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and 3/8" *(10 mm)* in metal studs. Maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(15 cm)* for ceilings.
- KERDI waterproofing membrane or KERDI-BOARD waterproof building panel shall be installed up to the height of the showerhead at minimum.
- Any protrusions through the KERDI membrane or KERDI-BOARD panel (e.g., showerhead, mixing valve, etc.) must be treated with KERDI-SEAL-PS/-MV seals, KERDI-FIX or suitable sealant.

Substrate Preparation

- When using KERDI waterproofing membrane, verify that solid backing is properly fastened to framing members.

Solid Backing Materials

- Gypsum wallboard – ASTM C1396/C1396M
- Cementitious backer unit – ANSI A118.9 or ASTM C1325
- Fiber-cement underlayment – ASTM C1288
- Fiber-reinforced water-resistant gypsum backerboard/underlayment – ASTM C1278
- Coated glass mat water-resistant gypsum backerboard – ASTM C1178
- Portland cement mortar – ANSI A108.1B
- Concrete
- Masonry

Setting and Grouting Materials

- Unmodified thin-set mortar – ANSI A118.1
- Grout – ANSI A118.3, A118.6, or A118.7

Installation Specifications

- Solid backing panels – follow manufacturer's instructions
- Portland cement mortar bed – ANSI A108.1B
- Tile – ANSI A108.5
- Grout – ANSI A108.6, A108.10

Other Considerations

- When KERDI or KERDI-BOARD and tile are installed on the ceiling, the solid backing and fasteners must be able to support the load of the tile and setting and grouting materials.
- Shower grab bars must be anchored in the structure or solid blocking behind KERDI-BOARD.
- Schluter®-Systems profiles may be used to finish and protect outside corners and eliminate the use of sealant at inside corners; see page 35.

INSTALLATION

Walls and Ceilings

Please refer to Schluter®-Systems' installation videos in addition to reading the instructions below.

Shower walls may be made waterproof using KERDI/-KERDI-DS or KERDI-BOARD prior to construction of the shower base. The waterproofing is carried to the height of the showerhead (at minimum). KERDI or KERDI-BOARD application on ceiling is optional for showers. For continuous-use steam rooms, KERDI-DS is applied to walls and ceilings. For intermittent use steam showers, KERDI or KERDI-BOARD is applied to walls and ceilings.

Schluter®-KERDI or Schluter®-KERDI-DS over solid backing

The thin-set mortar used for bonding KERDI/-KERDI-DS to walls and ceilings must be appropriate for the substrate and must penetrate and engage the membrane fleece. For most substrates (e.g., gypsum board or CBU), an unmodified thin-set mortar is used. The mortar must be mixed to a fairly fluid consistency, but still able to hold a notch.

1 Clean any dust or other debris from the surface of the solid backing. Dampen particularly dry and porous substrates in order to help prevent premature drying or skinning of the thin-set mortar.

2 Apply unmodified thin-set mortar using a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. Embed KERDI or KERDI-DS in the mortar and work the membrane onto the entire surface to ensure full coverage and remove air pockets.

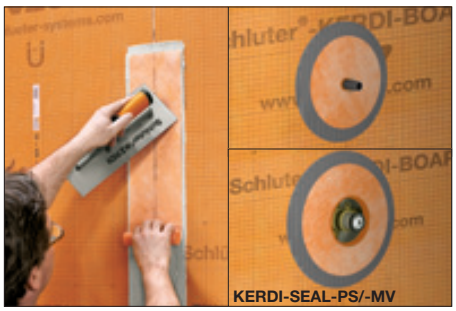
3 Seams in the membrane are constructed by overlapping the edges by 2" *(50 mm)* or by abutting adjacent sheets and installing KERDI-BAND, centered over the joint. Any protrusions through the membrane (e.g., mixing valve, shower head, etc.) must be sealed with KERDI-SEAL-PS/-MV, KERDI-FIX, or other suitable sealant.

Schluter®-KERDI-BOARD over wood or metal framing

Grab bars, wall-mounted toilets, or other heavy objects must be anchored in the structure or solid blocking behind KERDI-BOARD. Installation instructions for other applications of KERDI-BOARD (e.g. fully embedded or spot-bonded over solid backing) can be found in the 12.1 Schluter®-KERDI-BOARD technical data sheet.

1 KERDI-BOARD can be mounted vertically or horizontally on framing with appropriate screws and corresponding KERDI-BOARD-ZT washers. Minimum board thickness = 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c.; 3/4" *(19 mm)* for studs spaced at 24" (61.0 cm) o.c. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and at least 3/8" *(10 mm)* in metal studs.

2 Abut panels over the center of the studs. Screws may be placed between adjacent panels such that the washers fasten both panel edges. The maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(150 mm)* for ceilings.



3 KERDI-BOARD joints, corners, and fastener penetrations are sealed with KERDI-BAND and KERDI-KERECK corners, ensuring a minimum 2" *(50 mm)* overlap. Apply unmodified thin-set mortar using a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. Embed KERDI-BAND/-KERECK in the mortar and work the membrane onto the surface to ensure full coverage and remove air pockets. Any protrusions through the panel (e.g., mixing valve, shower head, etc.) must be sealed with KERDI-SEAL-PS/-MV, KERDI-FIX, or other suitable sealant.

INSTALLATION

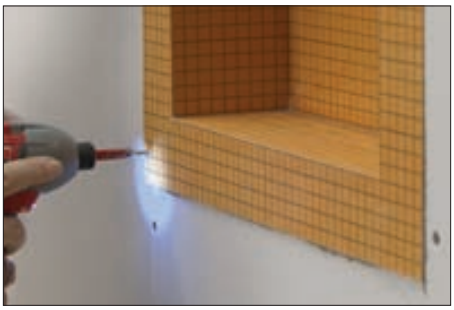
Schluter®-KERDI-BOARD-SN Shower Niche

Please refer to Schluter®-Systems' installation videos in addition to reading the instructions below.

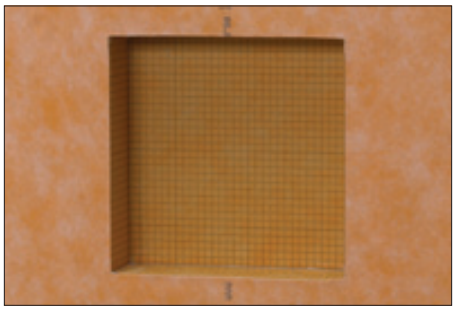
The exact order of installation can vary from that shown below, provided all fastening and waterproofing measures are performed properly. The following represents Schluter®-Systems' recommendations for simple and reliable installation.

Schluter®-KERDI over solid backing

1 Determine desired location and trace around the outside of the KERDI-BOARD-SN flange, making sure the lines are level and plumb. Cut and remove the wallboard such that the niche will be supported on both sides by the studs or other wall framing.



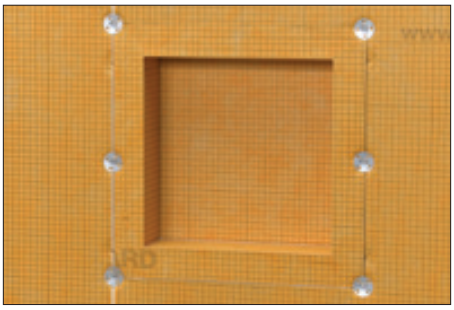
2 Insert the niche and fasten to the studs using wood or metal screws, placing the fasteners approximately 1/4" *(6 mm)* from the edges of the niche. Fasten all corners and limit fastener spacing to 12" *(30 cm)* o.c.



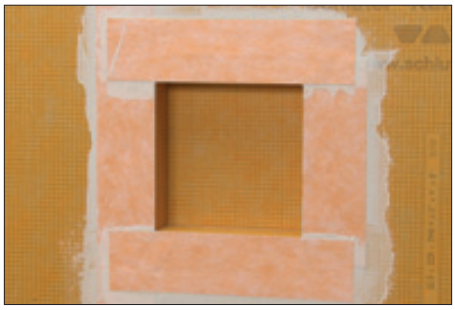
3 Apply the KERDI membrane over the wall surface as described on page 20. Once the membrane is solidly embedded, cut the membrane to match the niche opening.

Schluter®-KERDI-BOARD over wood or metal framing

1 Determine desired location and trace around the outside of the KERDI-BOARD-SN flange, making sure the lines are level and plumb. Cut and remove the KERDI-BOARD such that the niche will be supported on both sides by the studs or other wall framing.



2 Insert the niche and fasten to the studs using wood or metal screws and KERDI-BOARD-ZT washers, placing the fasteners along the seam between the KERDI-BOARD and the niche. Fasten all corners and limit fastener spacing to 12" *(30 cm)* o.c.



3 Seal the seams between the niche and walls using KERDI-BAND with unmodified thin-set mortar ensuring a 2" *(50 mm)* overlap in all directions.

Note: When using the prefabricated shelf, determine the desired height of the shelf and mark with a level line. Set tile up to that line on the back and sides of the niche. Butter the sides and back of the shelf with unmodified thin-set mortar and solidly embed it in the niche, resting on the previously installed tile. The shelf may be raised at the back to create a slope, or the tile may be set on a slope, to prevent water from pooling in the finished application.

INSTALLATION

Shower Base with Schluter®-KERDI-DRAIN

Please refer to Schluter®-Systems' installation videos in addition to reading the instructions below.

Preparation

Locate and cut a hole in the substrate for the drain outlet and coupling to the waste line using the template provided. Limit the diameter of the hole to 5" *(125 mm)* maximum to ensure proper support for the tile assembly. Note: Fill in box-outs in concrete floors with dry-pack mortar or concrete. A pipe coupling or similar can be used as a form around the waste line.

Schluter®-KERDI-DRAIN with Schluter®-KERDI-SHOWER-ST prefabricated shower tray

The substrate must be clean, even, and load bearing. Any leveling must be done prior to shower tray installation. If necessary, cut the tray to size prior to application; ideally, the tray is cut equally on all sides to ensure a consistent perimeter height. The base can also be extended beyond the tray using dry-pack mortar.

Plumbing Access: If there is access to the plumbing from below and the waste line can be connected after installing KERDI-DRAIN, the tray can be installed prior to the drain.

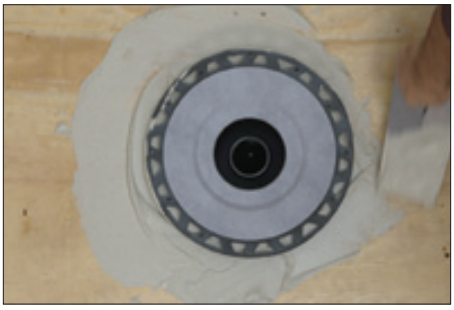
1 Apply unmodified thin-set mortar to the substrate using a 1/4" x 3/8" *(6 mm x 10 mm)* square- or U-notched trowel.

2 Place the KERDI-SHOWER-ST tray and solidly embed in the mortar. Check the underside of the tray to ensure full coverage and support are achieved.

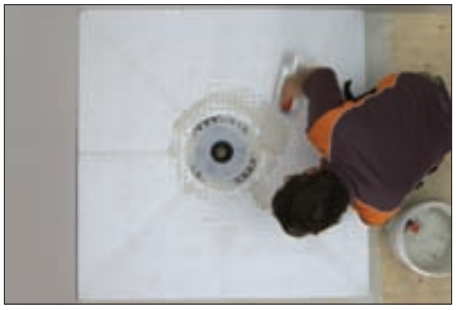
3 Completely fill the step in the shower tray with thin-set mortar. Press KERDI-DRAIN firmly into the mortar to ensure full support of the bonding flange.

No Plumbing Access: When there is no access to the plumbing from below, KERDI-DRAIN is installed to the appropriate height and connected to the waste line prior to the installation of the shower tray.

1 Begin by dry-fitting the components. Measure and cut a section of pipe to connect KERDI-DRAIN to the odor trap using the detachable center section of the tray or foam spacers included with the drain as a spacer. Prepare the odor trap, pipe, and KERDI-DRAIN with cleaner, primer and ABS or PVC cement per the solvent cement manufacturer's instructions and connect.

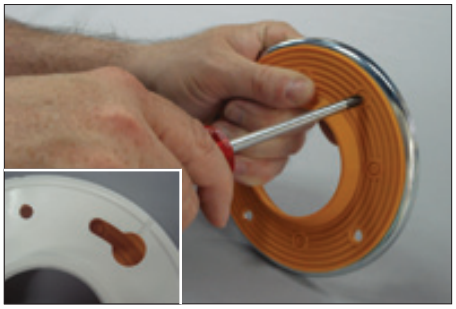


2 Apply thin-set mortar to the substrate and to the top and bottom of the detached center section of the KERDI-SHOWER-ST tray. Slide the center section into place below the drain to ensure solid and uniform support of the bonding flange.

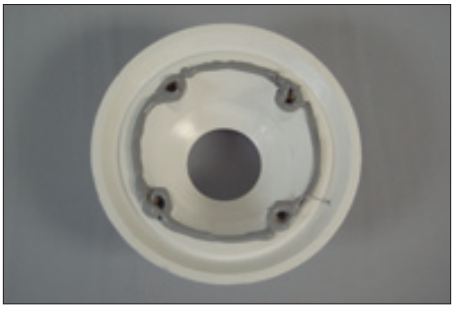


3 Apply unmodified thin-set mortar to the substrate using a 1/4" x 3/8" *(6 mm x 10 mm)* square- or U-notched trowel. Place the KERDI-SHOWER-ST tray and solidly embed in the mortar. Check the underside of the tray to ensure full coverage and support are achieved.

Clamping Ring Drain Installed: If a clamping ring drain is installed, replace with KERDI-DRAIN or convert using the KERDI-DRAIN adaptor kit.



1 Remove the clamping ring from the installed drain and save the bolts. Align the bolt pattern of the clamping ring with the adaptor ring and punch the matching inserts through the adaptor ring.



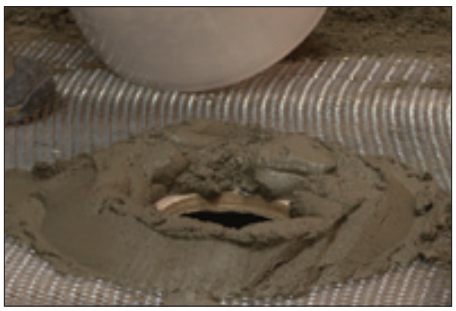
2 Apply a 1/4" - 3/8" *(6 mm - 10 mm)* bead of KERDI-FIX to the installed drain flange. Place the adaptor ring on the installed drain, re-insert the bolts, and tighten evenly. Make bolts finger-tight plus 1/4 turn; over tightening may warp the ring and result in leaks.

3 Slide the adaptor flange into the adaptor ring and ensure full support underneath with mortar or the detachable center section of the foam tray. Depending on the installed drain elevation, it may be necessary to install a polystyrene foam panel, tile backerboard, etc. prior to the tray. Install the tray as per the instructions on page 22.

Note: Schluter®-Systems recommends a leak test be performed on the connection between the drain and the waste line prior to continuing with the remainder of the installation whenever possible.

Schluter®-KERDI-DRAIN with mortar bed

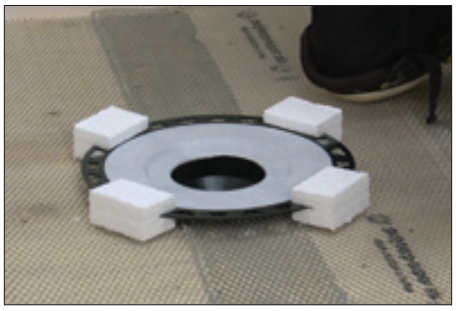
Plumbing Access: If there is access to the plumbing from below and the waste line can be connected after installing KERDI-DRAIN, the drain can be installed in conjunction with the mortar bed.



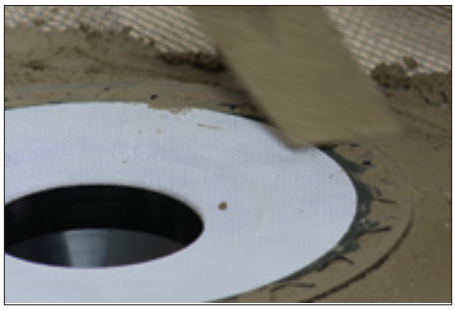
1 Place a ring of loose mortar up to the inlet hole in the floor and firmly press the drain into the mortar. The bonding flange must be fully supported to prevent damage to the tile assembly (e.g., cracked grout around drain). When installing KERDI-DRAIN over wood substrates, the minimum thickness of mortar required at the perimeter of the bonding flange is 1" *(25 mm)*.

2 The screed is then placed flush with the top of the bonding flange of the KERDI-DRAIN. Slope the mortar bed at 1/4" *(6 mm)* per 12" *(305 mm)* using the bonding flange and a perimeter screed as guides.

No Plumbing Access: When there is no access to the plumbing from below, KERDI-DRAIN is installed to the appropriate height and connected to the waste line prior to the installation of the shower base.

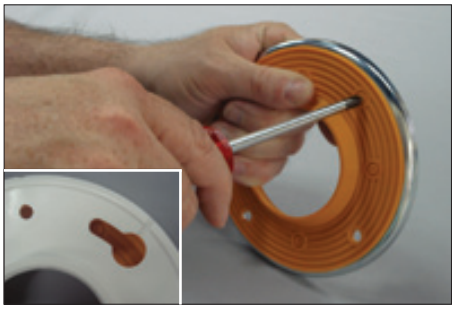


1 Measure and cut a section of pipe to connect KERDI-DRAIN to the odor trap using the foam spacers included with the drain as a spacer. When installing KERDI-DRAIN over wood substrates, the minimum thickness of mortar required at the perimeter of the bonding flange is 1" *(25 mm)*. Prepare the odor trap, cut section of pipe, and KERDI-DRAIN with cleaner, primer and ABS or PVC cement per the solvent cement manufacturer's instructions and connect.

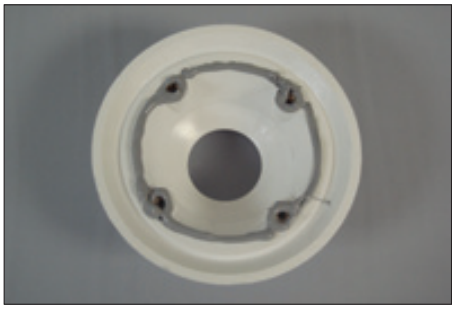


2 Pack loose mortar under the drain up to the inlet hole to ensure solid and uniform support of the bonding flange. The mortar bed is then placed according to the instructions above.

Clamping Ring Drain Installed: If a clamping ring drain is installed, replace with KERDI-DRAIN or convert using the KERDI-DRAIN adaptor kit.



1 Remove the clamping ring from the installed drain and save the bolts. Align the bolt pattern of the clamping ring with the adaptor ring and punch the matching inserts through the adaptor ring.



2 Apply a 1/4" - 3/8" *(6 mm - 10 mm)* bead of KERDI-FIX to the installed drain flange. Place the adaptor ring on the installed drain, re-insert the bolts, and tighten evenly. Make bolts finger-tight plus 1/4 turn; over tightening may warp the ring and result in leaks.

3 Slide the adaptor flange into the adaptor ring and ensure full support under the adaptor flange with mortar. The mortar bed is then placed according to the instructions on page 23.

Note: Schluter-Systems recommends a leak test be performed on the connection between the drain and the waste line prior to continuing with the remainder of the installation whenever possible.

Schluter®-KERDI-SHOWER-SC/-SR shower curb or ramp

If necessary, cut the KERDI-SHOWER-SC/-SR curb or ramp to length using a handsaw.

1 Apply unmodified thin-set mortar to the floor and to the edge of the shower base and walls using a 1/4" x 3/8" *(6 mm x 10 mm)* square- or U-notched trowel.

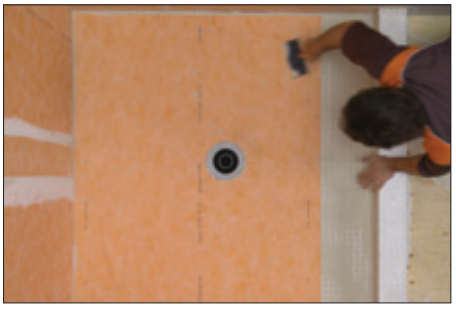
2 Press the curb or ramp firmly into place. Check the underside of the curb or ramp to ensure that full coverage and support is achieved.

Note: Schluter®-KERDI-BOARD can be used to build custom curbs, which are installed similar to KERDI-SHOWER-SC.

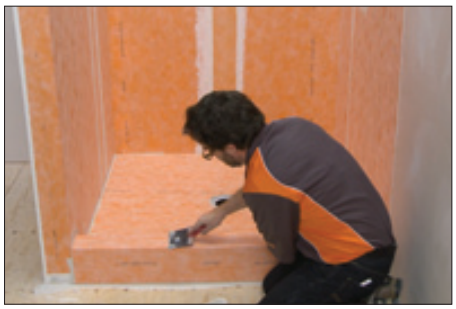
Waterproofing the shower base

The KERDI or KERDI-DS waterproofing membranes can be installed over the KERDI-SHOWER-ST tray immediately or over a mortar bed as soon as the mortar bed can be walked upon using unmodified thin-set mortar. The thin-set mortar must be mixed to a fairly fluid consistency, but still able to hold a notch.

1 Apply unmodified thin-set mortar to the bonding flange and surrounding shower base with a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. **Note:** When using the stainless steel drain, the membrane is adhered to the bonding flange with KERDI-FIX; clean the bonding flange prior to KERDI-FIX application.



2 Embed KERDI or KERDI-DS in the bond coat and work the membrane onto the KERDI-DRAIN bonding flange and shower base to ensure full coverage and remove air pockets. The membrane is carried to the step in the bonding flange (template provided) and to the edges of the shower base.



3 Repeat the process to install the membrane over the curb or ramp. Seams in the membrane are constructed by overlapping the edges by 2" *(50 mm)* or by abutting adjacent sheets and installing KERDI-BAND centered over the joint. Install KERDI-KERECK at all inside and outside corners.

Grate assembly

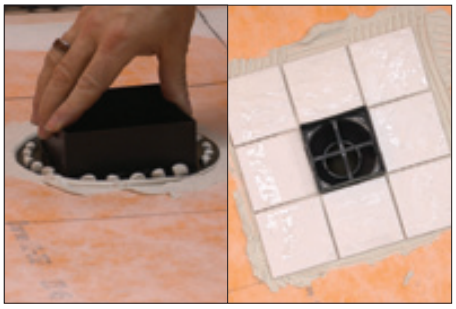
Grate:

1 Place the height adjustment collar inside the lateral adjustment ring and snap the grate into place. **Note:** For the 6" *(150 mm)* grates, the height adjustment collar is integrated with the grate. For the residential adaptor kit, there is no lateral adjustment ring.

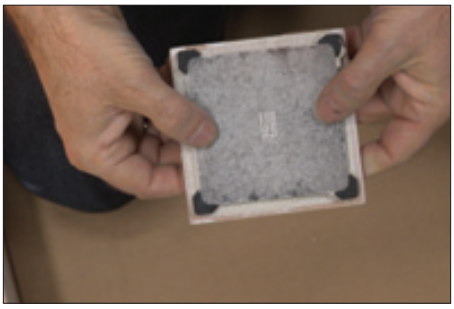
2 Fill the step in the bonding flange with thin-set mortar and back-butter the underside of the grate to ensure full support. Place the assembly into the mortar and install the surrounding tiles, ensuring full coverage.

3 Position the grate to match the joint pattern of the tile covering and press flush with the tile surface. Remove all excess setting material. **Note:** Protect the visible surface of the grate from contact with setting and grouting materials. In particular, anodized aluminum is sensitive to alkaline materials.

Tileable Covering Support:



1 Fill the step in the bonding flange with thin-set mortar. Place the tile spacer in the lateral adjustment ring and press the assembly into the mortar. Install tiles up to the tile spacer, ensuring full coverage. Embed the tiles on the integrated tabs on the lateral adjustment ring, which provide for a flush transition to the covering support. Position the tile spacer to match the joint pattern of the tile covering. The tiles may be held back from the spacer as required to match the layout.Remove all excess setting material.



2 Apply tile to the top of the covering support using unmodified thin-set mortar. The tile may overhang the covering support provided that a drainage opening of at least 3/16" *(5 mm)* is provided.

3 After the tile is set and grouted, remove the tile spacer and insert the tiled covering support into the lateral adjustment ring.

INSTALLATION

Shower base with Schluter®-KERDI-LINE

Please refer to Schluter-Systems installation videos in addition to reading the instructions below.

Preparation

Locate and cut a hole in the substrate for the drain outlet and coupling to the waste line using the template provided. Limit the diameter of the hole to 5" *(125 mm)* maximum to ensure proper support for the tile assembly. Note: Fill in box-outs in concrete floors with dry-pack mortar or concrete. A pipe coupling or similar can be used as a form around the waste line.

Schluter®-KERDI-LINE channel body installation

Plumbing Access: When there is access to the plumbing from below and the waste line can be connected after installing KERDI-LINE, the channel body may be set without making a connection to the waste line simultaneously.

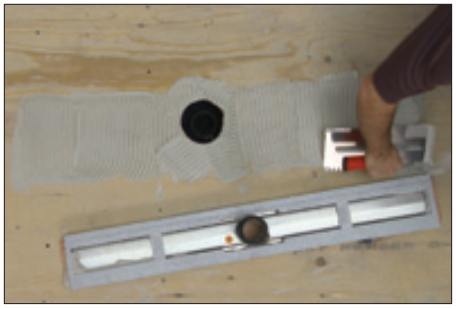
1 Apply unmodified thin-set mortar to the substrate where the drain is to be placed with a notched trowel and solidly embed the channel support in the mortar.

2 Apply unmodified thin-set mortar to the top of the channel support and press the channel body firmly into the mortar, ensuring full support of the bonding flange. Check to make sure the KERDI-LINE is level.

No Plumbing Access: When there is no access to the plumbing from below, the channel body must be set and connected to the waste line simultaneously.

1 Begin the drain installation by dry fitting the components. Measure and cut a section of pipe to connect the coupling to the odor trap below the floor, using the channel support as a spacer.

2 Apply unmodified thin-set mortar to the top of the channel support with a notched trowel and press the channel support firmly onto the underside of the channel body. Attach the mechanical coupling to the drain outlet and the cut section of the pipe per the coupling manufacturer's instructions.



3 Apply unmodified thin-set mortar to the substrate where the drain is to be placed with a notched trowel. Prepare the cut section of pipe and odor trap with cleaner, primer and ABS or PVC cement per the solvent cement manufacturer's instructions.

4 Solidly embed the channel support and KERDI-LINE into the mortar on the floor and connect the cut section of pipe to the odor trap. Check to make sure the KERDI-LINE is level.

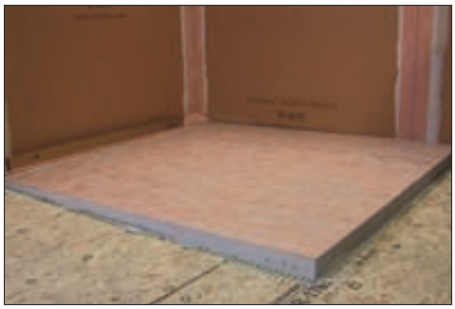
Note: KERDI-FIX or other adhesives that are compatible with EPS foam can be used to install the channel support and channel body as an alternative to thin-set mortar. Apply a generous bead of KERDI-FIX to the top and bottom of the channel support. The use of KERDI-FIX limits the ability to level KERDI-LINE.

Note: Schluter®-Systems recommends a leak test be performed on the connection between the drain and the waste line prior to continuing with the remainder of the installation whenever possible.

Clamping Ring Drain Installed: If a clamping ring drain is already installed, the drain must be replaced with KERDI-LINE.

Schluter®-KERDI-LINE with Schluter®-SHOWER-L/-LS prefabricated tray

1 Any leveling of the floor must be done prior to the installation of the shower tray. If necessary, cut the tray to size prior to application. The shower base can also be extended beyond the tray using dry-pack mortar, which is in turn covered with the KERDI membrane.



2 Cut the flat end of the KERDI-SHOWER-L/-LS tray to fit around the channel support. Apply unmodified thin-set mortar to the substrate using a 1/4" x 3/8" *(6 mm x 10 mm)* square- or U-notched trowel. Slide the KERDI-SHOWER-L/-LS under the edge of the channel body flush with the surface of the channel support, making certain to solidly embed the tray in the mortar. Check the underside of the tray to ensure that full coverage is achieved.

Note: When KERDI-LINE is placed at an intermediate location (e.g., center of shower), it is recommended that the KERDI SHOWER-L tray be cut by equal amounts from the ends to ensure a consistent height of the first course of tile. When KERDI-LINE is placed adjacent to a wall, cut the KERDI-SHOWER-LS tray from the thicker end to ensure a flush transition at the drain.

Schluter®-KERDI-LINE with mortar base

1 Place a mortar screed opposite the installed KERDI-LINE channel body.

2 Fill the remainder of the shower base with mortar and slope the mortar bed at 1/4" *(6 mm)* per 12" *(305 mm)* using the bonding flange and a perimeter screed as guides.

3 As soon as the mortar bed can be walked upon, waterproofing with the KERDI membrane can begin.

Schluter®-KERDI-SHOWER-SC/-SR shower curb or ramp

If necessary, cut the KERDI-SHOWER-SC/-SR curb or ramp to length using a handsaw.

1 Apply unmodified thin-set mortar to the floor and to the edge of the shower base and walls using a 1/4" x 3/8" *(6 mm x 10 mm)* square- or U-notched trowel.

2 Press the curb or ramp firmly into place. Check the underside of the curb or ramp to ensure that full coverage and support is achieved.

Note: KERDI-BOARD can be used to build custom curbs, which are installed similar to KERDI-SHOWER-SC.

Waterproofing the shower base

The KERDI-SHOWER-L/-LS trays are provided with integral waterproofing. When using a mortar bed, the shower base must be made waterproof using the KERDI or KERDI-DS waterproofing membrane. The membranes can be installed as soon as the mortar bed can be walked upon.

1 Apply unmodified thin-set mortar to the shower base with a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. The thin-set mortar must be mixed to a fairly fluid consistency, but still able to hold a notch.

2 Embed KERDI or KERDI-DS in the bond coat and work the membrane onto the entire surface to ensure full coverage and remove air pockets. The membrane is carried to the stainless steel bonding flange and to the edges of the shower base.

3 Seams in the membrane are constructed by overlapping the edges by 2" *(50 mm)* with unmodified thin-set mortar or by abutting adjacent sheets and installing KERDI-BAND with unmodified thin-set mortar, centered over the joint.

4 The KERDI collar on KERDI-LINE is integrated with the adjoining waterproofing assembly using unmodified thin-set mortar. The KERDI collar must be cut and folded where the KERDI-LINE is installed adjacent to walls.

5 Repeat the process to install the membrane over the curb or ramp. Seams in the membrane are constructed by overlapping the edges by 2" *(50 mm)* or by abutting adjacent sheets and installing KERDI-BAND centered over the joint. Install KERDI-KERECK at all inside and outside corners.

Grate assembly

Grates A and B

1 Apply unmodified thin-set mortar to the underside of the grate frame and place it in the channel body ensuring full coverage and support of the frame. Insert the foam spacers in the grate frame to reinforce it during the remainder of the installation.

2 Insert the plastic height adjustment spacers with threaded bolts under the tabs along the inside of the grate frame to adjust the elevation of the frame such that the surface of the frame will be flush with the surface of the tile covering. The spacers may be adjusted simply by turning the bolts by hand.

3 Install the tiles on the shower base using unmodified thin-set mortar, ensuring full coverage. Make final adjustments to ensure the grate frame is flush with the surrounding tiles.

Note: Protect the visible surfaces of the grate frame and grate from contact with setting and grouting materials. Setting and grouting materials must be removed immediately.

Covering support D

1 Peel protective foil off the cover strip and adhere the strip to the bonding flange adjacent to the wall(s). Position the strip along the edge of the channel. The cover strip hides and protects the KERDI surface under the tile installed in step 3.

When the shower base will be tiled beyond the ends of the channel, the cover strip is not required at these locations.

2 Insert the tile spacers into the channel body. Install the surrounding tile on the adjoining walls and shower base up to the spacers using unmodified thin-set mortar, ensuring full coverage. Remove all excess setting material.

3 Tile is installed flush with the front side of the covering support to provide the drainage opening and overhanging the back side of the covering support to cover the bonding flange along the wall using unmodified thin-set mortar. When the ends of the channel body are located adjacent to walls, the tile is installed overhanging the end of the support to cover the bonding flange along the walls. Measure and cut the tile such that an approximate 1/16" *(1 mm)* gap is left at the walls.

Note: When the shower base is tiled beyond the ends of the channel, the tile on the ends of the covering support can be cut to either match the grout joints of the surrounding floor covering or to provide a perimeter drainage opening.

Optional Schluter®-SHOWERPROFILE-S/-R system profiles

Select SHOWERPROFILE-S according to shower base tile thickness and the height and length of the wall area to be covered. Select SHOWERPROFILE-R according to the height of the wall area to be covered.

SHOWERPROFILE-S

1 Measure the height of the area to be covered at the lowest point. Next, measure the length of the area and mark the profile where it is to be cut at both ends. Remove the protective foil and cut the tapered profile and support section to length

2 Place the tapered profile into the support section and apply unmodified thin-set mortar to the fleece on the back side of the profile.

3 Press the profile into place and align it flush with the wall tile. Immediately clean away any excess setting material. Install adjacent tiles on the shower base.

SHOWERPROFILE-R

1 Measure the length of the area to be covered. Remove the protective foil and cut the profile to length

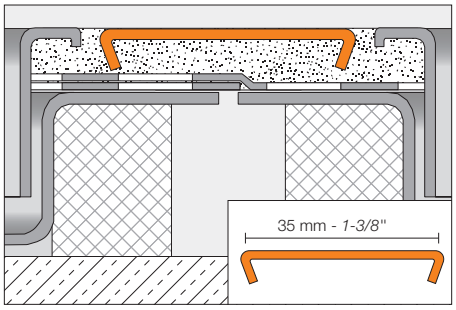
2 Connect the two components of SHOWERPROFILE-R to achieve the desired height. Small pieces of tape can be used to help maintain the position of the components during installation.

3 Apply unmodified thin-set mortar to the fleece on the back side of the profile. Press the profile into place and align it flush with the wall tile. Immediately clean away any excess setting material.

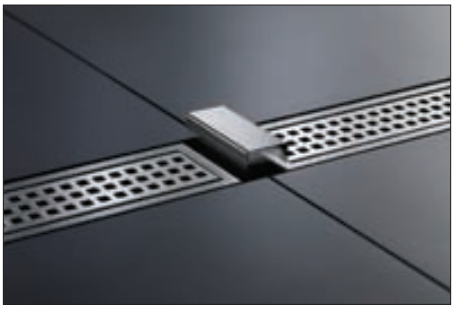
Note: The Schluter®-PROCUT-TSM cutting wheel can be used with an angle grinder set to low speed to cut the stainless steel profiles. The SHOWERPROFILE-S support section can be cut with snips. Please read and follow all safety instructions from the grinder manufacturer to prevent injury.

Schluter®-KERDI-LINE-FC

KERDI-LINE may be used with tiles that are 1/4" *(6 mm)* thick or greater.



1 Install KERDI-LINE channel bodies end-to-end and overlap the KERDI collars using unmodified thin-set mortar to ensure a waterproof connection.



2 Apply a sufficient amount of thin-set mortar to the substrate and/or the back of KERDI-LINE-FC and press the profile into the mortar until its surface is flush with the adjacent tile and grate assembly. Leave a space of approximately 1/16" – 1/8" *(1.5 – 3 mm)*. Fill the joints completely with grout or setting material.

INSTALLATION

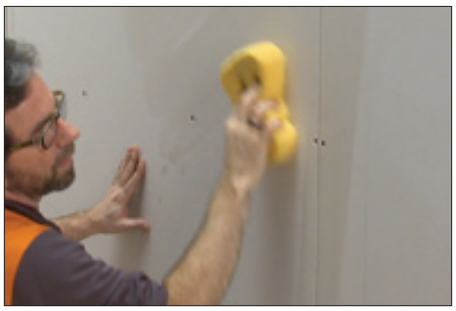
Bathtub surround

Please refer to Schluter®-Systems' installation videos in addition to reading the instructions below.

The waterproofing is carried to the height of the showerhead (at minimum). KERDI or KERDI-BOARD application on ceiling is optional for bathtub surrounds.

Schluter®-KERDI over solid backing

The thin-set mortar used for bonding KERDI to walls and ceilings must be appropriate for the substrate and must penetrate and engage the membrane fleece. For most substrates (e.g., gypsum board or CBU), an unmodified thin-set mortar is used. The mortar must be mixed to a fairly fluid consistency, but still able to hold a notch.



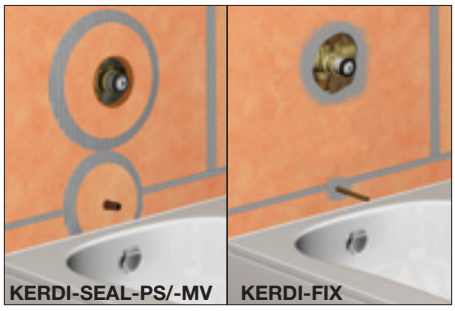
1 Clean any dust or other debris from the surface of the solid backing. Dampen particularly dry and porous substrates in order to help prevent premature drying or skinning of the thin-set mortar.

2 Place painter's tape to protect the tub deck. Apply unmodified thin-set mortar to the solid backing using a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. Completely fill the 1/4" *(6 mm)*-wide gap between the solid backing and tub with KERDI-FIX or other suitable sealant. **Note:** When the solid backing is installed above the tub flange, apply KERDI-FIX to the tub flange and spread using a small notched trowel.

3 Apply KERDI-BAND waterproofing strips or 5" *(125 mm)*-wide cut sections of KERDI waterproofing membrane. Solidly embed the membrane in the mortar and KERDI-FIX to ensure full coverage and remove air pockets.

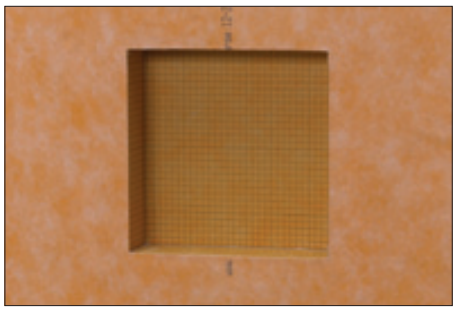
4 Apply unmodified thin-set mortar to the solid backing and previously applied KERDI-BAND. Embed the KERDI in the thin-set mortar and work the membrane onto the entire surface to ensure full coverage and remove air pockets.

5 Seams in the membrane are constructed by overlapping the edges of KERDI by 2" *(50 mm)* or by abutting adjacent sheets of KERDI and installing KERDI-BAND, centered over the joint.



6 Any protrusions through the KERDI membrane (e.g., mixing valve, shower head, etc.) must be sealed with KERDI-SEAL-PS/-MV, KERDI-FIX, or other suitable sealant.

7 Seal connections to knee walls using KERDI-KERECK-F preformed corners and unmodified thin-set mortar.



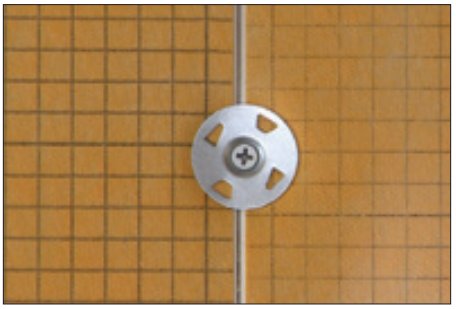
Note: See page 21 for KERDI-BOARD-SN shower niche installation instructions.

8 Once the entire membrane, including seams, corners, and knee walls have been completely bonded and, therefore, waterproofed, the assembly is ready to be tiled.

Schluter®-KERDI-BOARD over wood or metal framing

Grab bars or other heavy objects must be anchored in the structure or solid blocking behind KERDI-BOARD. Installation instructions for other applications of KERDI-BOARD (e.g. fully embedded or spot-bonded over solid backing) can be found in the 12.1 Schluter®-KERDI-BOARD technical data sheet.

1 KERDI-BOARD can be mounted vertically or horizontally on framing with appropriate screws and corresponding KERDI-BOARD-ZT washers. Minimum board thickness = 1/2" *(12.5 mm)* for studs spaced at 16" *(40.6 cm)* o.c.; 3/4" *(19 mm)* for studs spaced at 24" *(61.0 cm)* o.c. Screws must reach a depth of at least 3/4" *(20 mm)* in wood studs and at least 3/8" *(10 mm)* in metal studs.



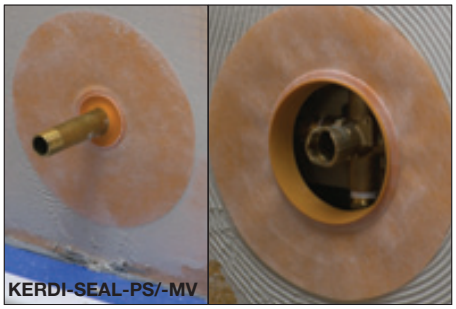
2 Abut panels over the center of the studs or other solid backing. Screws may be placed between adjacent panels such that the washers fasten both panel edges. The maximum allowable on-center fastener spacing is 12" *(30 cm)* for walls and 6" *(150 mm)* for ceilings.

3 Place painter's tape to protect the tub deck. Apply unmodified thin-set mortar to the KERDI-BOARD using a 1/4" x 3/16" *(6 mm x 5 mm)* V-notched trowel or the KERDI-TROWEL. Completely fill the 1/4" *(6 mm)*-wide gap between the KERDI-BOARD and tub with KERDI-FIX or other suitable sealant.

Note: When KERDI-BOARD is installed above the tub flange, apply KERDI-FIX to the tub flange and spread using a small notched trowel.

4 Apply KERDI-BAND waterproofing strips. Solidly embed the membrane in the mortar and KERDI-FIX to ensure full coverage and remove air pockets.

5 KERDI-BOARD joints, corners, and fastener penetrations are sealed with KERDI-BAND, ensuring a minimum 2" *(50 mm)* overlap.



6 Any protrusions through the panel (e.g., mixing valve, shower head, etc.) must be sealed with KERDI-SEAL-PS/-MV, KERDI-FIX, or other suitable sealant.

7 Seal connections to knee walls using KERDI-KERECK-F preformed corners and unmodified thin-set mortar.

Note: See page 21 for KERDI-BOARD-SN shower niche installation instructions.

8 Once all seams, corners, and knee walls have been completely sealed, the assembly is waterproofed and ready to be tiled.

BARRIER-FREE SHOWERS

Accessibility and style

As our population ages, there is increasing demand for accessible living spaces. Tiled showers typically feature curbs to retain water in the stall, which can make entry difficult for those with limited mobility, including individuals who need the assistance of wheelchairs. Barrier-free tiled showers eliminate the use of a curb and rely on the slope of the floor to keep water inside the stall, thus improving accessibility. These showers have also become increasingly popular for their aesthetic benefits, as they can integrate seamlessly with surrounding tiled surfaces to enhance an already luxurious environment.

DESIGN AND INSTALLATION CONSIDERATIONS

The Schluter®-Shower System provides a simple and effective means of waterproofing barrier-free installations. The key to this is that the KERDI waterproofing membrane is topically applied. Once the slope to the drain is established, KERDI and tile are installed, thus minimizing the thickness of the assembly.

Barrier-free tiled showers rely on the slope of the floor to effectively contain water in the immediate shower area and direct water to the drain. Given the wide range of potential configurations, it isn't possible to address them all in this Handbook. However, the following guidelines will assist in planning any barrier-free installation.

Ideally, the floor will be recessed before installing a sloped mortar bed or the KERDI-SHOWER-ST shower tray to allow an even transition at the door threshold. This can be relatively straightforward in new construction and can also be accomplished in renovations. When recessing the floor is not an option, it is necessary to provide a ramp up into the shower area. The KERDI-SHOWER-ST/-SR tray and ramp can be useful tools in such applications as well.

Please note that recessing the floor of a bathroom must be done in a way that preserves the structural integrity and safety of the construction. This may require the services of a qualified design professional (e.g., architect, engineer, etc.).

Waterproofing must be installed in all areas subject to water exposure. Ideally, the entire floor is protected. Install KERDI over mortar beds and Schluter®-Systems prefabricated EPS foam substrates. Use the DITRA uncoupling membrane over plywood/OSB or concrete subfloors. All seams are sealed using KERDI-BAND. Please see detail K-SHBF on page 10 for further discussion.

Note on Accessibility Guidelines:

Various building codes and other sources, such as the Americans with Disabilities Act, include specific requirements for disabled access in public buildings and should be consulted when applicable. Areas of interest may include degree of slope, clearance, and supporting structures such as grab bars.

THE WATERPROOF BATHROOM

Security and utility

Bathrooms are a primary focus of today's building and remodeling projects and are becoming more and more luxurious, complete with steam showers, oversized bathtubs, and the latest in fixtures and lighting. As such, tiled showers, bathtub surrounds, floors, walls, and vanities are in high demand. Tile and stone are beautiful, durable, and available in a wide range of formats, colors, and textures, allowing limitless design options. Tile and stone offer unmatched utility and high-end appeal, making them the ideal surface coverings for bathrooms. Given the substantial investments made in these projects and nature of use, long-term durability is a high priority.

Waterproofing is the foundation of successful tiled bathrooms. Moisture-sensitive construction materials (e.g., wood framing, plywood and OSB sheathing, gypsum wallboard, etc.) are common in the North American building environment and must be protected in wet areas. Wet areas also bring the potential for mold growth if effective moisture management is not provided. The key to mold control is moisture control.

In addition to showers and tub surrounds, bathroom floors surrounding these fixtures are routinely subjected to water exposure during use. Bathroom floors may also, through unexpected circumstances, become exposed to significant amounts of water; for example, an overflowed toilet or ruptured sink supply, which can result in flooding. Waterproofing these floors can save an owner from replacing the tile assembly and substructure in the event of a leak.

Schluter®-Systems offers simple and effective solutions to protect moisture-sensitive substrates, prevent mold growth, and preserve the integrity of the tiled surface throughout the bathroom. The Schluter®-Shower System is an integrated family of products that together form a fully bonded, watertight assembly for tiled showers and bathtub surrounds. DITRA is an uncoupling membrane that protects the tiled floors from damage by neutralizing differential movement stresses between the substrate and tile and provides reliable waterproofing. Since both of these systems are based on topically-applied, bonded waterproof membranes, they can be combined simply and easily to provide waterproofing throughout the bathroom.

Floors can be made fully waterproof with DITRA. Since the membrane is made of waterproof polyethylene, the only extra step necessary is to seal the seams and floor/wall connections with KERDI-BAND. The same practice is used to integrate the DITRA with the KERDI used to waterproof the shower or tub surround. The result is a comprehensive waterproofing system that protects against moisture penetration.

Please consult the Schluter®-DITRA Installation Handbook for comprehensive installation guidelines and warranty criteria.

Schluter®-DITRA Installation Handbook

Complete details and illustrations for tile installations over various substrates, and supplementary information on topics such as waterproofing, movement joints, and thin-set mortars.

To obtain or download a free copy of the DITRA Installation Handbook, visit **www.schluter.com** or call **1-800-472-4588 (US)** or **1-800-667-8746 (CAN)**.

PROFILES

Details make the difference

Ceramic and stone tiles are durable, easy to maintain, and hygienic, representing the ideal surface coverings for showers and bathtub surrounds. Exposed tile edges, however, are unsightly and prone to cracking and chipping. While ceramic trim pieces such as bullnose or quarter round have traditionally been used to finish and protect tile edges at the outside corners and perimeters of an installation, ceramic trim availability can be limited, particularly in imported tile lines, which can in turn limit overall tile selection.

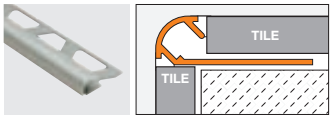
Ceramic cove base represents a neat, hygienic method for treating transitions at inside corners by providing a curved surface that prevents the collection of dirt and is easy to clean. However, the limited availability of ceramic trim pieces has resulted in the use of sealant and caulk to treat such transitions. These joints must be continually maintained throughout the life of the installation. This may include replacing the joints, which requires cutting the sealant out and possibly compromising the waterproofing membrane.

Finishing and edge protection

Schluter®-Systems offers various finishing and edge-protection profiles for outside corners and other tiled edges that can be used with any field tile, thus reducing dependence on ceramic trim and increasing design options. These profiles are available in a wide range of materials and finishes such as stainless steel, anodized aluminum, brass, and colored PVC to produce a variety of looks, including bold contrasts, discreet color matches to the grout, and complements to plumbing fixtures.

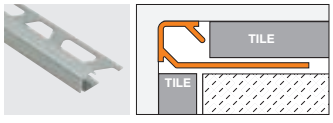
Schluter®-RONDEC

Provides a symmetrically rounded edge for a smooth design.



Schluter®-QUADEC

Provides a square edge for a contemporary and sleek design.

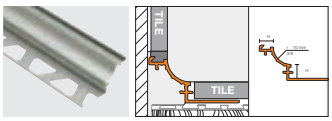


Maintenance-free inside corners

Schluter®-Systems offers various cove-shaped profiles to address the need to finish inside corners. These profiles can be used with any field tile to produce permanent, easy to clean, and maintenance-free floor/wall transitions and inside wall corners.

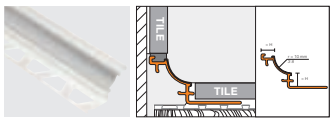
Schluter®-DILEX-AHK

Allows for easy cleaning and will not trap debris. Anodized and Tuscan color-coated aluminum finishes.



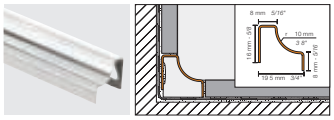
Schluter®-DILEX-PHK

Allows for easy cleaning and will not trap debris. PVC profile.



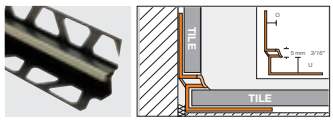
Schluter®-DILEX-HKU

Allows for easy cleaning, will not trap debris. Stainless steel finish.



Schluter®-DILEX-EKE

Provides a straight and discreet joint that eliminates sealant at inside corners.



Please refer to our Illustrated Price List for details on the complete line of Schulter profiles and accessories available.

THIN-SET FACTS

Discussion on thin-set mortars and Schluter®-KERDI installations

QUESTION: Should a latex-modified thin-set mortar or an unmodified thin-set mortar be used to install Schluter®-KERDI?

ANSWER:

The type of bonding mortar used to apply KERDI must be suitable for the substrate and mechanically anchor the fleece on the KERDI. For all the substrates listed in this Handbook (e.g., gypsum board, cement backerboard, etc.), an unmodified thin-set mortar is recommended. When installing KERDI with unmodified thin-set mortar over particularly dry and porous substrates, it is recommended to wet the substrate first, in order to help prevent premature drying or skinning of the thin-set mortar.

Unmodified thin-set mortar must be used to construct all KERDI seams to ensure watertight performance of the system. Learn more below.

QUESTION: Can ceramic tile, including porcelain tile, be set on Schluter®-KERDI with unmodified thin-set mortar?

ANSWER: YES. In fact, we recommend it. Here's why:

Portland cement-based unmodified thin-set mortars are dependent on the presence of moisture for hydration in order to gain strength. Since KERDI is impervious, it does not deprive the mortar of its moisture. This allows the cement to properly hydrate, resulting in a strong, dense bond coat. In fact, after the mortar has reached final set (usually within 24 hours), unmodified thin-set mortars achieve higher strengths when cured in continually moist conditions.

QUESTION: Can ceramic tile, including porcelain tile, be set on Schluter®-KERDI with latex-modified thin-set mortar?

ANSWER: We DON'T recommend it. Here's why:

Latex-modified mortars must air dry for the polymers to coalesce and form a hard film in order to gain strength. When sandwiched between two impervious materials such as KERDI and ceramic tile, including porcelain tile, drying takes place very slowly through the open joints in the tile covering. [According to the Tile Council of North America's Handbook for Ceramic Tile Installation, this drying period can fluctuate from 14 days to over 60 days, depending on the geographic location, the climatic conditions, and whether the installation is interior or exterior]. Therefore, extended cure times would be required before grouting if using modified thin-set mortars between KERDI and ceramic tile, including porcelain tile. If extended cure times were not observed, the results could be unpredictable. This is even more important to consider in wet areas such as showers, as there is the additional concern of latex leaching.

QUESTION: How do I know if the thin-set mortar is modified or unmodified?

ANSWER:

In general, unmodified thin-set mortar is a blend of Portland cement, sand, and water retention agents that is mixed with water by the user. The applicable product standard for unmodified thin-set mortars is ANSI A118.1. Look for this standard on the packaging (e.g., product meets ANSI A118.1 when mixed with water). Unmodified thin-set mortar may also be referred to as dry-set mortar by the manufacturer.

Modified thin-set mortars are similar to unmodified thin-set mortars, but include additional polymers such as latex. The additional polymers are introduced in either liquid or powder form. In the first case, the user mixes an unmodified or dry-set mortar powder with a liquid polymer additive instead of water. In the second case, the polymers are added by the manufacturer to the dry blend in powder form. The user then mixes the powder with water. The applicable product standards for modified thin-set mortars include ANSI A118.4 and ANSI A118.11.

ADDITIONAL NOTES

- 20 years of field experience and testing by the Tile Council of North America (TCNA) support the efficacy of using unmodified thin-set mortars in conjunction with KERDI in tiled showers.
- Remember, all thin-set mortars have an acceptable temperature range that must be observed during application and curing.
- Pre-mixed thin-set mortars and mastics are not suitable for use in conjunction with the Schluter®-Shower System.

TESTING, LISTINGS, & APPROVALS

Products and system evaluation

Schluter®-Systems is committed to providing reliable installation systems for tile and stone. As part of this commitment, we have invested considerable resources in testing our products and obtaining listings and approvals through various certification organizations to provide our customers and local code officials with relevant data that supports the efficacy of our system.

TEST DATA

KERDI, KERDI-DS, DITRA, and DITRA-XL have been independently tested and found to meet or exceed the requirements of the American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation A118.10. Data for KERDI and KERDI-DS are presented in the table below.

Property	Requirement	Performance	
		KERDI	KERDI-DS
Fungus and micro-organism resistance	The membrane shall not support mold growth	Pass	Pass
Seam strength	16 lb/2 in width	36 lb/2 in width	37 lb/2 in width
Breaking strength	170 psi	1084 psi	1275 psi
Dimensional stability	0.7% maximum length change	Pass	Pass
Waterproofness	No moisture penetration	Pass	Pass
7-day shear strength	50 psi	87 psi	87 psi
7-day water immersion shear strength	50 psi	77 psi	99 psi
4-week shear strength	50 psi	96 psi	93 psi
12-week shear strength	50 psi	90 psi	87 psi
100-day water immersion shear strength	50 psi	120 psi	116 psi

KERDI, KERDI-DS, and KERDI-BOARD have also been independently tested to determine the water vapor permeance of the products. Please see further discussion on the importance of water vapor permeance on page 39.

Product	Test method	Performance
KERDI	ASTM E96*	0.90 perms
KERDI-DS		0.19 perms
KERDI-BOARD 1/2" *(12.5 mm)*		0.36 perms

* Using the desiccant method at 100°F (38°C) and 90% RH

KERDI, KERDI-FIX and DITRA/DITRA-XL have been independently tested to determine VOC emissions per California Specification 01350: "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers" and have been found to emit zero VOCs. Therefore, these products can contribute towards achieving the following green building credits:

- LEED, IEQ Credit 4.3: Low-Emitting Materials - Flooring Systems
- ICC 700-2008, 901.6: Pollutant Source Control - Hard-Surface Flooring
- CHPS, EQ2.2: Low-Emitting Materials

PRODUCT EVALUATIONS AND LISTINGS

Schluter®-Shower System (Membranes and Drains)

- ICC-ES PMG Report No. PMG-1204

Membranes (KERDI/DITRA/DITRA-XL)

- ICC-ES Report No. ESR-2467
- Listed by cUPC® to meet ANSI A118.10
- Los Angeles Research Report

Drains (KERDI-DRAIN and KERDI-LINE)*

- Listed by UPC® to meet IAPMO IGC 195
- Certified by CSA to meet CSA B79
- Certified by NSF as special engineered product to meet applicable requirements of ASME A112.6.3
- Los Angeles Research Report

*KERDI-DRAIN and KERDI-LINE are available in various configurations. Please refer to pages 41 to 43 for information regarding which configurations are listed and certified.

APPROVALS

Schluter®-Shower System

- Massachusetts
- Michigan
- Kentucky

Copies of the aforementioned test reports, listings, and approvals are available upon request. Listings and approvals may also be accessed via our website at www.schluter.com.

MOLD

The importance of mold control

The term “mold” is used to describe visible fungal growth. Mildew is another common term which refers to the type of fungi found growing on window sills and in bathrooms. Fungi are everywhere in our environment and are found both indoors and outdoors. However, the type and amount found in the home can be an important health issue. Understanding how to effectively control mold growth is very important.

What is Mold?

Fungi are different from plants and animals. Fungi cannot produce their own nutrients as plants do and reproduce differently than both plants and animals. Molds reproduce by making spores which travel through the air to deposit on surfaces. If the conditions are right for reproduction they can grow and continue to multiply. The filamentous parts of mold attach to nutrients and form networks called mycelia. It is these networks that are visible to us in the indoor environment. Molds come in a variety of colors, but we commonly see them as green or black.

Over 1000 different species of mold have been identified in homes, but they are not all toxic to humans. Molds growing inside a home may release chemicals and spores and some may even produce mycotoxins. The chemicals released by fungi are called volatile organic compounds (VOC). For example, ethanol is a common VOC that is responsible for the distinctive musty or earthy odor associated with mold.

Health Effects

Mold can cause damage to building materials and may have adverse health effects on some individuals. The susceptibility of people to develop symptoms depends on the nature of the fungal material, genetic predisposition, age, state of health, and extent of exposure. Although there is insufficient evidence in the scientific community to determine with certainty the association between mold exposure and the effect on human health, it is of course recommended to control mold exposure in the home and workplace. Common health effects associated with exposure to mold are a variety of upper and lower respiratory tract symptoms: cough; nose, throat and eye irritation; rhinitis; sneezing; and wheezing. These symptoms are similar to allergies and associated with asthma. Mycotoxins are fungal metabolites that have a toxic effect on humans. Toxic effects are associated with symptoms such as fever, nausea, headaches, and skin irritations.

Factors for Mold Growth

Fungi need a source of moisture, organic material to serve as a source of nutrients, and a warm environment with a temperature range from 50 to 107 °F (10 to 42 °C) to grow. For most species of fungi, a neutral to acidic pH is preferred, with a high pH level indicating an alkaline environment that is generally not conducive to mold growth. Mold will reproduce in such conditions as long as moisture is present. Once the area is dry, the mold may stop reproducing but can continue to be allergenic to susceptible people. If moisture is reintroduced, the mold will again start the reproduction cycle and grow.

Controlling Mold Growth

As stated above, four conditions must be satisfied to support mold growth.

1. Mold spores
2. Food source (organic material)
3. Warm temperatures: 50 to 107 °F (10 to 42 °C)
4. Moisture

Mold spores travel through the air indoors and outdoors and are impossible to eliminate. The use of organic materials in construction is common in today’s building environment. Examples include wood framing members (e.g., studs, joists, I-joists, and trusses), plywood or OSB subfloors, paper-faced gypsum boards on walls and ceilings, etc. Room temperature falls within the temperature range suitable for mold growth. Therefore, the control of moisture, including liquid water and water vapor, is the only viable method for controlling mold growth in the indoor environment.

Showers are critical areas with respect to mold and moisture control. They are commonly exposed to thousands of gallons of water per year and high humidity levels. The tile covering alone will not prevent water and moisture penetration. As such, it is essential that an effective moisture management system be designed and installed properly to protect surrounding building materials and prevent mold growth.

The traditional method for installing tiled shower assemblies creates a water in/ water out system. Since shower pan liners are placed below the mortar setting bed in these assemblies, moisture is allowed to saturate the mortar bed before exiting the system through the weep holes in the drain. When the pan liner is placed on a level substrate instead of a sloped surface, a relatively common error, moisture in the system will have no means to exit through the weep holes in the drain and the mortar bed will remain saturated for extended periods of time. The continued presence of moisture, combined with organic materials carried into the mortar bed by the rinse water, warm temperatures, and reduced pH as soluble salts are washed out of the mortar bed, increases the risk of mold growth within the system.

The Schluter®-Shower System is an integrated family of products that creates a sealed system. KERDI is a bonded waterproof membrane that is installed on top of the mortar bed and solid backing on walls. Tile is installed directly over the membrane using thin-set mortar. The KERDI-DRAIN was designed specifically to ensure a simple and secure connection to bonded waterproof membranes, such as KERDI, at the top of the assembly rather than below it. The resulting assembly does not permit moisture penetration into the solid backing or mortar bed, thus limiting the amount of water behind the tile covering and allowing the shower to dry out between uses. Furthermore, KERDI is a vapor retarder that protects wall cavities from water vapor penetration. Thus, the Schluter®-Shower System provides superior moisture management and reduces the potential for mold growth within the system.

Regardless of the system used to waterproof a tiled shower, it is important to provide adequate ventilation (e.g., exhaust fans) in the bathroom to effectively manage water vapor and reduce condensation on all bathroom surfaces.

Further discussion and recommendations for mold remediation can be found in various sources, including the following.

- “A Brief Guide to Mold, Moisture, and Your Home” – U.S. Environmental Protection Agency (EPA)
- “Mold Remediation in Schools and Commercial Buildings” – U.S. Environmental Protection Agency (EPA)
- “Mould Guidelines for the Canadian Construction Industry” – Canadian Construction Association

VAPOR

The importance of water vapor management

Why is water vapor management important?

It is important to consider that water exists as both liquid and vapor in showers, and must be managed in both forms. The prime example of this is the steam shower. Steam showers that are not designed to manage water vapor have caused mold growth in wall cavities, rot in wood framing, and damage to moisture-sensitive wall coverings on the opposite side of the stud cavities.

Do all waterproofing membranes manage water vapor?

The ANSI A118.10 standard for bonded waterproof membranes was developed to provide a framework for determining the suitability of these products to serve as barriers to liquid water only. As such, the standard does not include a minimum criterion to establish the ability of products to limit vapor transmission. Thus, simply selecting a membrane that meets the requirements of the ANSI A118.10 standard for a steam shower application is not enough. The ability of the product to limit vapor transmission must be considered as well.

How can I identify a waterproofing membrane that manages water vapor?

Water vapor permeance is a measure of how quickly water vapor is transmitted through a material and can be determined according to the ASTM E96 Standard Test Method for Water Vapor Transmission of Materials. The higher the vapor permeance, the less effective a material is at slowing vapor transmission.

There is no universal requirement for vapor permeance of membranes in the building industry. The environmental conditions (i.e., differences in temperature and relative humidity), building materials, etc., and relevant field experience will determine the appropriate membrane performance for a given application. The consensus within the tile industry in North America has been that a vapor permeance of 1.0 perm or less will manage vapor effectively in showers and intermittent use steam shower applications.

The TCNA Handbook for Ceramic, Glass, and Stone Tile Installation and the TTMAC Specification Guide 09 30 00 Tile Installation Manual specify a water vapor permeance of 0.5 perms or less for bonded waterproofing membranes used in continuous use steam rooms (e.g., those found in health clubs, spas, etc.) when tested using the desiccant method at 100°F (38°C) and 90% RH.

Does the Schluter®-Shower System manage water vapor?

Schluter-Systems has tested the various options within the Schluter®-Shower System for moisture management, including KERDI, KERDI-DS, and KERDI-BOARD in the more aggressive conditions referenced above. The table below summarizes Schluter®-Systems' recommendations for the use of these products and respective water vapor permeance values.

Product	Recommended Applications	Water Vapor Permeance (perms)[1]
KERDI	Showers, intermittent use steam showers, and bathtub surrounds	0.90[2]
KERDI-DS	Continuous use steam rooms	0.19
KERDI-BOARD	Showers, intermittent use steam showers, and bathtub surrounds	0.36[3]

[1] Tested according to ASTM E96, using the desiccant method at 100°F (38°C) and 90% RH

[2] Previously reported a value of 0.75 perms when tested according to ASTM E96, using the water method at 73.4°F (23°C) and 50% RH

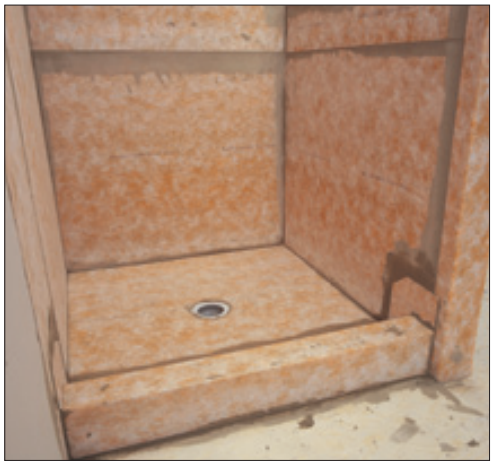
[3] 1/2" – *12.5 mm*-thick KERDI-BOARD tested

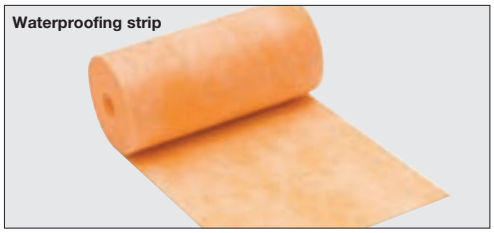
While the water vapor permeance of KERDI-BOARD meets the water vapor permeance recommendations for continuous use steam rooms in tile industry standard guidelines, Schluter®-Systems has chosen to require the KERDI-DS membrane for these demanding applications in an effort to be conservative and provide the best possible solution for our customers.

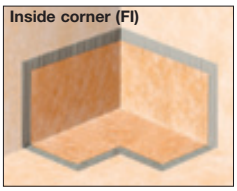
Thus, the Schluter®-Shower System has solutions that provide superior moisture management for virtually any tile application.

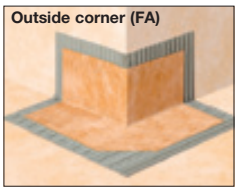
PRODUCT & ORDERING INFO

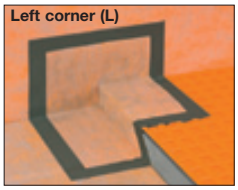
Ordering information for the **Schluter®-Shower System** and **DITRA** components outlined in this Handbook is located below. For technical support, our Illustrated Price List, or additional information on our complete product line, please call **1-800-472-4588 (USA)** or **1-800-667-8746 (Canada)**, or visit our comprehensive website at **www.schluter.com**.

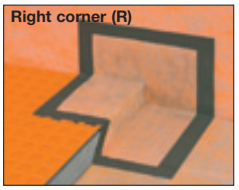


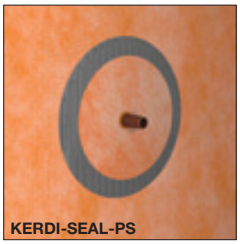


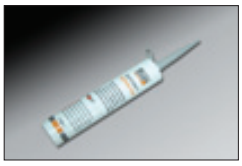


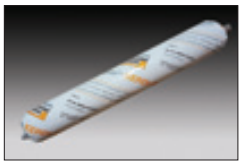












*Color codes: BW - Bright white, G - Grey

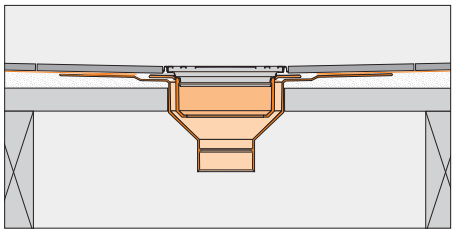
Note: 1 mil = 1 one-thousandth of an inch.

KERDI is listed by cUPC® and evaluated by ICC-ES (Report Nos. ESR-2467 and PMG-1204).

Schluter®-KERDI

KERDI is a pliable sheet-applied polyethylene waterproofing membrane and vapor retarder that guarantees uniform thickness. It is covered on both sides with a fleece webbing to anchor the membrane in thin-set mortar.

KERDI waterproofing membrane		
Item No.	**Dimensions**	**Thickness**
KERDI 200/5M	3' 3" x 16' 5" = 54 ft² *(1 m x 5 m = 5 m²)*	8 mil
KERDI 200/10M	3' 3" x 33' = 108 ft² *(1 m x 10 m = 10 m²)*	8 mil
KERDI 200/20M	3' 3" x 65' 7" = 215 ft² *(1 m x 20 m = 20 m²)*	8 mil
KERDI 200	3' 3" x 98' 5" = 323 ft² *(1 m x 30 m = 30 m²)*	8 mil
KERDI-DS waterproofing membrane		
KERDI-DS	3' 3" x 98' 5" = 323 ft² *(1 m x 30 m = 30 m²)*	20 mil
KERDI-BAND waterproofing strip		
KEBA 100/125/5M	5" x 16' 5" *(125 mm x 5 m)*	4 mil
KEBA 100/125/10M	5" x 33' *(125 mm x 10 m)*	4 mil
KEBA 100/185/5M	7-1/4" x 16' 5" *(185 mm x 5 m)*	4 mil
KEBA 100/250/5M	10" x 16' 5" *(250 mm x 5 m)*	4 mil
KEBA 100/125	5" x 98' 5" *(125 mm x 30 m)*	4 mil
KEBA 100/185	7-1/4" x 98' 5" *(185 mm x 30 m)*	4 mil
KEBA 100/250	10" x 98' 5" *(250 mm x 30 m)*	4 mil
KERDI-KERECK-F waterproofing corners		
Item No.	**Type/Quantity**	**Thickness**
KERECK/FI 2	Inside corner / 2 units	4 mil
KERECK/FI 10	Inside corner / 10 units	4 mil
KERECK/FA 2	Outside corner / 2 units	4 mil
KERECK/FA 10	Outside corners / 10 units	4 mil
KERDI-KERECK-F 135° inside and bench corners		
Item No.	**Packaging**	**Thickness**
KERSB135K	Bench/neo-angle package 1 left and 1 right bench corner, 2 135° inside corners	
KERECK135/FI2	135° inside corners / 2 units	4 mil
KERECK135/FI10	135° inside corners / 10 units	4 mil
KERSB135KLR	1 left and 1 right bench corner	4 mil
KERSB135K5LR	5 left and 5 right bench corner	4 mil
KERDI-KERS waterproofing corners		
Item No.	**Type/Size**	**Thickness**
KERS20L	Left: 3/4" *(20 mm)*	4 mil
KERS28L	Left: 1-1/8" *(28 mm)*	4 mil
KERS20R	Right: 3/4" *(20 mm)*	4 mil
KERS28R	Right: 1-1/8" *(28 mm)*	4 mil
KERDI-SEAL-PS pipe seal with gasket		
Item No.	**Opening diameter/Quantity**	**Thickness**
KMS185/12	1/2" *(12.5 mm)* / 1 unit	4 mil
KMS185/20	3/4" *(20 mm)* / 1 unit	4 mil
KMS10185/12	1/2" *(12.5 mm)* / 10 units	4 mil
KMS10185/20	3/4" *(20 mm)* / 10 units	4 mil
KERDI-KM pipe seal		
KM5117/22	7/8" *(22 mm)* / 5 units	4 mil
KERDI-SEAL-MV mixing valve seal with gasket		
KMSMV235/114	4-1/2" *(114 mm)* / 1 unit	4 mil
KMSMV10235/114	4-1/2" *(114 mm)* / 10 units	4 mil
KERDI-FIX adhesive/sealant		
Item No.	**Volume**	
KERDIFIX/color*	290 ml	
KERDIFIX/SB/G	600 ml	



Schluter®-KERDI-DRAIN

KERDI-DRAIN is a floor drain designed with a sloped, integrated bonding flange to provide a secure connection to KERDI and other bonded waterproof membranes at the top of the assembly.

Unique Features and Benefits:

- Appropriate for both mortar bed and KERDI-SHOWER-ST tray installations.
- Features a fully adjustable square grate and accommodates a wide range of tile thicknesses 1/4" to 1-1/4" *(6 mm to 31 mm)*. Grate is available in stainless steel (E), stainless steel with oil-rubbed bronze finish (EOB), brushed brass anodized aluminum (AMGB), brushed copper/bronze anodized aluminum (AKGB), and brushed nickel anodized aluminum (ATGB).
- Ideal for new construction and renovation work.
- Saves installation time and labor, as it eliminates the prep work required for a traditional two-step mortar pan.
- Integrated bonding flange ensures secure connection to KERDI at top of the assembly.

4" Grate Options					6" Grate Options
Tileable	Anodized Aluminum			Stainless Steel	Stainless Steel
Tileable (ECS) Patent pending	**Brushed nickel (ATGB)**	**Brushed copper/ bronze (AKGB)**	**Brushed brass (AMGB)**	**Oil-rubbed bronze (EOB)** **Stainless steel (E)**	**(6E)** **(6RE)**

KERDI-DRAIN - Components - ABS, PVC or stainless steel flange				
ABS or PVC flange	Stainless steel flange	Includes	Description	Quantity
		1 KERDI-DRAIN	Drain with integrated bonding flange in ABS, PVC or stainless steel, and grate assembly	1
		2 KERDI-KERECK-F	Pre-formed waterproofing corners	4 inside 2 outside
		3 KERDI-SEAL-PS	Pipe seal (3/4")	1
		4 KERDI-SEAL-MV	Mixing valve seal	1
		5 KERDI-FIX	Sealing and bonding compound (66 ml) (Included with stainless steel flange only)	1

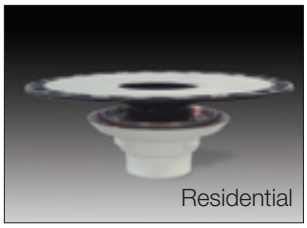
2" *(50 mm)* drain outlet			
	ABS flange	PVC flange	Stainless steel flange
4" *(100 mm)* Square Grate			
Stainless steel (E)	KD2/ABS/E[1]	KD2/PVC/E[1]	KD2/E/E[1]
Oil-rubbed bronze stainless steel (EOB)	KD2/ABS/EOB	KD2/PVC/EOB	KD2/E/EOB
Brushed brass anod. alu. (AMGB)	KD2/ABS/AMGB[1]	KD2/PVC/AMGB[1]	KD2/E/AMGB[1]
Brushed copper/ bronze anod. alu. (AKGB)	KD2/ABS/AKGB[1]	KD2/PVC/AKGB[1]	KD2/E/AKGB[1]
Brushed nickel anod. alu. (ATGB)	KD2/ABS/ATGB[1]	KD2/PVC/ATGB[1]	KD2/E/ATGB[1]
Tileable (ECS)	KD2/ABS/ECS[1]	KD2/PVC/ECS[1]	KD2/E/ECS[1]
6" *(150 mm)* Square or Round Grate			
Square Grate stainless steel (E)	KD2/ABS/6E[1]	KD2/PVC/6E[1]	KD2/E/6E[1]
Round Grate stainless steel (E)	KD2/ABS/6RE[1]	KD2/PVC/6RE[1]	KD2/E/6RE[1]

[1] Listed by ICC-ES (Report No. PMG-1204), UPC®, CSA, and NSF.

3" *(75 mm)* drain outlet			
	ABS flange	PVC flange	Stainless steel flange
6" *(150 mm)* Square or Round Grate			
Square Grate stainless steel (E)	KD3/ABS/6E[1]	KD3/PVC/6E[1]	KD3/E/6E[1]
Round Grate stainless steel (E)	KD3/ABS/6RE[1]	KD3/PVC/6RE[1]	KD3/E/6RE[1]

Also available:

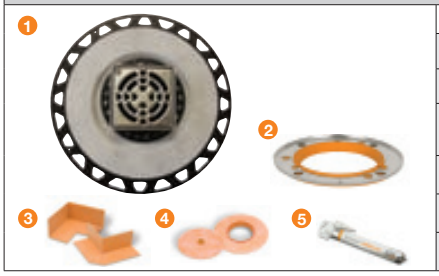
Stainless steel flange with 2" *(50 mm)* threaded outlet.



Schluter®-KERDI-DRAIN - Adaptor Kits

KERDI-DRAIN ADAPTOR KITS are used to convert traditional clamping ring drains to integrated bonding flange drains when removal of the clamping ring drain is not practical.

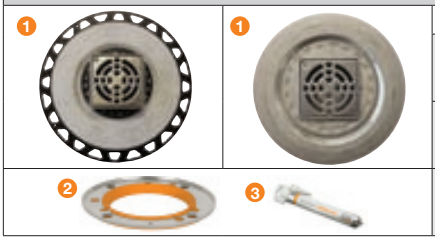
Schluter®-KERDI-DRAIN with residential adaptor ring and ABS flange



Includes	Description	Quantity
1 KERDI-DRAIN	Drain, with integrated bonding flange and grate assembly	1
2 Adaptor ring**	For residential clamping ring drains	1
3 KERDI-KERECK-F	Preformed waterproofing corners	4 inside and 2 outside
4 KERDI-SEAL-PS	Pipe seal (3/4")	1
5 KERDI-SEAL-MV	Mixing valve seal	1
6 KERDI-FIX	Sealing and bonding compound (66 ml)	1

** Ⓓ Schluter-Systems L.P., U.S. patent No. D593,641, other patents pending.

Schluter®-KERDI-DRAIN with commercial adaptor ring and ABS flange



Includes	Description	Quantity
1 KERDI-DRAIN	Drain, with integrated bonding flange in ABS or stainless steel, and grate assembly	1
2 Adaptor ring**	For commercial clamping ring drains	
3 KERDI-FIX	Sealing and bonding compound (66 ml)	

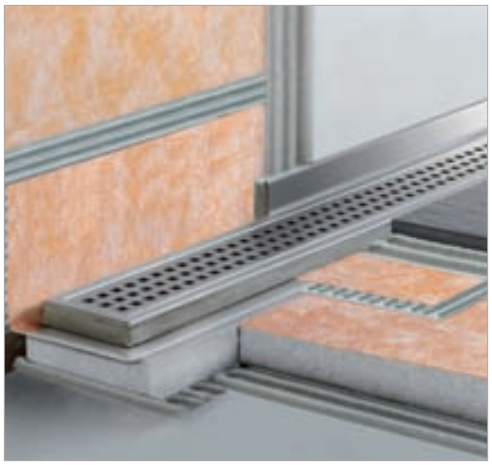
** Ⓓ Schluter-Systems L.P., U.S. patent No. D593,641, other patents pending.

Residential

	Adaptor kit with standard ABS bonding flange
4" *(100 mm)* Square Grate	
Stainless steel (E)	KDAR/ABS/E
Oil-rubbed bronze stainless steel (EOB)	KDAR/ABS/EOB
Brushed brass anod. alu. (AMGB)	KDAR/ABS/AMGB
Brushed copper/ bronze anod. alu. (AKGB)	KDAR/ABS/AKGB
Brushed nickel anod. alu. (ATGB)	KDAR/ABS/ATGB

Commercial

	Standard ABS bonding flange	**Extended** ABS bonding flange	Stainless steel bonding flange
4" *(100 mm)* Square Grate			
Stainless steel (E)	KDA/ABS/E	KDA/ABSL/E	KDA/E/E
Oil-rubbed bronze stainless steel (EOB)	KDA/ABS/EOB	KDA/ABSL/EOB	KDA/E/EOB
Brushed brass anod. alu. (AMGB)	KDA/ABS/AMGB	KDA/ABSL/AMGB	KDA/E/AMGB
Brushed copper/ bronze anod. alu. (AKGB)	KDA/ABS/AKGB	KDA/ABSL/AKGB	KDA/E/AKGB
Brushed nickel anod. alu. (ATGB)	KDA/ABS/ATGB	KDA/ABSL/ATGB	KDA/E/ATGB
Tileable grate (ECS)	KDA/ABS/ECS	KDA/ABSL/ECS	KDA/E/ECS
6" *(150 mm)* Square or Round Grate			
Square Grate stainless steel (E)	KDA/ABS/6E	KDA/ABSL/6E	KDA/E/6E
Round Grate stainless steel (E)	KDA/ABS/6RE	KDA/ABSL/6RE	KDA/E/6RE

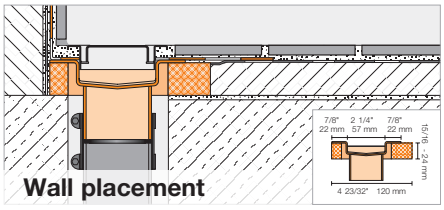


Schluter®-KERDI-LINE

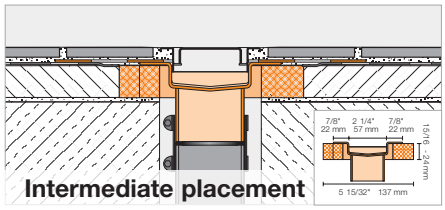
KERDI-LINE is a low profile linear floor drain specifically designed for bonded waterproofing assemblies. KERDI-LINE can be installed adjacent to walls or at intermediate locations in showers, wet rooms, and other applications that require waterproofing and drainage. The floor can be sloped on a single plane to KERDI-LINE, which enables the use of large-format tiles and creates interesting design opportunities.

KERDI-LINE consists of a formed stainless steel channel body and a grate assembly that can be seamlessly adjusted to the thickness of the ceramic tile or stone covering from 1/8" to 1" *(3 mm to 25 mm)*. Grate assemblies are available in three designs: closed, perforated, or tileable covering support.

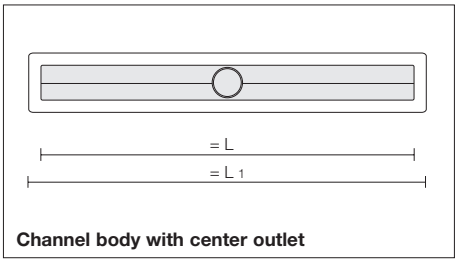
Note: There are multiple selections to be made for this product. Start by selecting the appropriate flange length then proceed to grate selection accordingly, keeping in mind there are two frame heights with two grate options (A or B), and a frameless option (D).



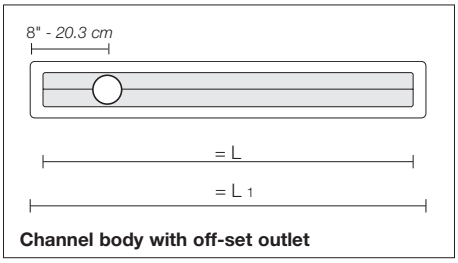
Wall placement



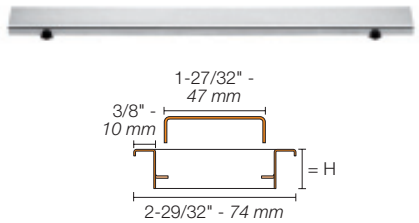
Intermediate placement



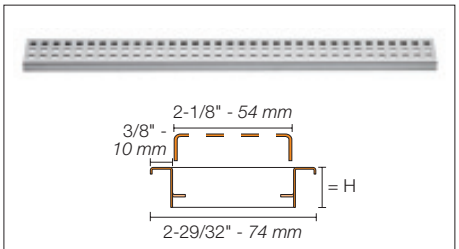
Channel body with center outlet



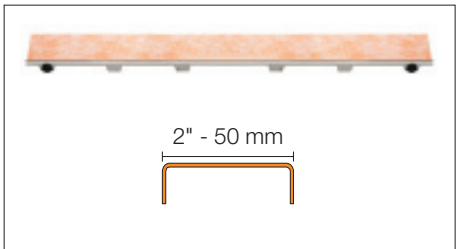
Channel body with off-set outlet



Closed (A)



Perforated (B)



Frameless Tileable (D) *Patent pending*

KERDI-LINE linear floor drain

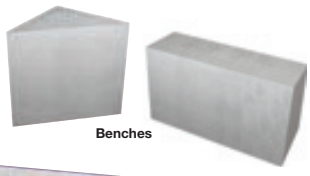
L = in. - *cm*	L_1 = in. - *cm*	Bonding flange		Grate A		Grate B		Grate D	
		Center outlet	Off-set outlet	Frame = 3/4" - *19 mm*	Frame = 1-1/8" - *30 mm*	Frame = 3/4" - *19 mm*	Frame = 1-1/8" - *30 mm*	For use with bonding flange with center outlet	For use with bonding flange with off-set outlet
20 - *50*	22 - *55*	KLV 60 E 50	-	KLAR 19 EB 50	KLAR 30 EB 50	KLB 19 EB 50	KLB 30 EB 50	KLDRE 50	-
24 - *60*	26 - *65*	KLV 60 E 60	-	KLAR 19 EB 60	KLAR 30 EB 60	KLB 19 EB 60	KLB 30 EB 60	KLDRE 60	-
28 - *70*	30 - *75*	KLV 60 E 70	KLVO 60 E 70	KLAR 19 EB 70	KLAR 30 EB 70	KLB 19 EB 70	KLB 30 EB 70	KLDRE 70	KLDRO E 70
32 - *80*	34 - *85*	KLV 60 E 80	KLVO 60 E 80	KLAR 19 EB 80	KLAR 30 EB 80	KLB 19 EB 80	KLB 30 EB 80	KLDRE 80	KLDRO E 80
36 - *90*	38 - *95*	KLV 60 E 90	KLVO 60 E 90	KLAR 19 EB 90	KLAR 30 EB 90	KLB 19 EB 90	KLB 30 EB 90	KLDRE 90	KLDRO E 90
40 - *100*	42 - *105*	KLV 60 E 100	KLVO 60 E 100	KLAR 19 EB 100	KLAR 30 EB 100	KLB 19 EB 100	KLB 30 EB 100	KLDRE 100	KLDRO E 100
44 - *110*	46 - *115*	KLV 60 E 110	KLVO 60 E 110	KLAR 19 EB 110	KLAR 30 EB 110	KLB 19 EB 110	KLB 30 EB 110	KLDRE 110	KLDRO E 110
48 - *120*	50 - *125*	KLV 60 E 120	KLVO 60 E 120	KLAR 19 EB 120	KLAR 30 EB 120	KLB 19 EB 120	KLB 30 EB 120	KLDRE 120	KLDRO E 120
52 - *130*	54 - *135*	KLV 60 E 130	-	KLAR 19 EB 130	KLAR 30 EB 130	KLB 19 EB 130	KLB 30 EB 130	KLDRE 130	-
56 - *140*	58 - *145*	KLV 60 E 140	-	KLAR 19 EB 140	KLAR 30 EB 140	KLB 19 EB 140	KLB 30 EB 140	KLDRE 140	-
60 - *150*	62 - *155*	KLV 60 E 150	-	KLAR 19 EB 150	KLAR 30 EB 150	KLB 19 EB 150	KLB 30 EB 150	KLDRE 150	-
64 - *160*	66 - *165*	KLV 60 E 160	-	KLAR 19 EB 160	KLAR 30 EB 160	KLB 19 EB 160	KLB 30 EB 160	KLDRE 160	-
68 - *170*	70 - *175*	KLV 60 E 170	-	KLAR 19 EB 170	KLAR 30 EB 170	KLB 19 EB 170	KLB 30 EB 170	KLDRE 170	-
72 - *180*	74 - *185*	KLV 60 E 180	-	KLAR 19 EB 180	KLAR 30 EB 180	KLB 19 EB 180	KLB 30 EB 180	KLDRE 180	-

KERDI-LINE is listed by ICC-ES (Report No. PMG-1204), UPC®, CSA, and NSF.

Note: Purchase bonding flange and grate assembly separately.

KERDI-SHOWER-ST shower tray

KERDI-SHOWER-L/-LS shower trays



Benches

Curb

Ramp

Schluter®-KERDI-SHOWER

KERDI-SHOWER prefabricated substrates are made of expanded polystyrene foam, for use in conjunction with the KERDI waterproofing membrane. Prefabricated substrates provide an alternative to shower bases constructed of mortar and other shower elements constructed of framing and solid backing.

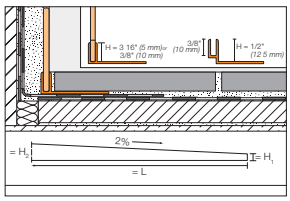
KERDI-SHOWER-ST shower tray for use with KERDI-DRAIN		
Item No.	**Dimensions**	**Drain Placement**
ST-122	48" x 48" *(122 cm x 122 cm)*	Center
ST-183	72" x 72" *(183 cm x 183 cm*	Center
ST-81/152	32" x 60" *(81 cm x 152 cm)*	Center
ST-81/152 BR	32" x 60" *(81 cm x 152 cm)*	Off-center
KERDI-SHOWER-L/-LS shower tray for use with KERDI-LINE		
KSL 1000 S	39" x 39" *(100 cm x 100 cm)*	Wall
KSL 1400 S	55" x 55" *(140 cm x 140 cm)*	Wall
KSL 1000	39" x 39" *(100 cm x 100 cm)*	Center
KSL 1400	55" x 55" *(140 cm x 140 cm)*	Center
KERDI-SHOWER-SB shower bench		
Item No.	**Dimensions[1]**	**Shape**
SB41	16" x 16" *(41 cm x 41 cm)*	Triangular
SB2981	32" x 11-1/2" *(81 cm x 29 cm)*	Rectangular
SB29107	42" x 11-1/2" *(107 cm x 29 cm)*	Rectangular
SB29122	48" x 11-1/2" *(122 cm x 29 cm)*	Rectangular
SB4181	32" x 16" *(81 cm x 41 cm)*	Rectangular
SB41122	48" x 16" *(122 cm x 41 cm)*	Rectangular
KERDI-SHOWER-SC shower curb		
Item No.	**Dimensions**	
SC122	48" x 6" x 4-1/2" *(122 cm x 15 cm x 11.5 cm)*	
KERDI-SHOWER-SR shower ramp		
Item No.	**Dimensions**	
SR122	48" x 15-7/8" *(122 cm x 40 cm)*	

[1] Height = 20" *(51 cm)*

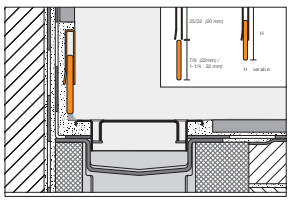
Schluter®-KERDI-BOARD-SN

KERDI-BOARD-SN prefabricated shower niche		
Item No.	**Dimensions[1]**	**Shelf**
KB 12 SN 305 152 A	12" x 6" *(305 mm x 152 mm)*	-
KB 12 SN 305 305 A	12" x 12" *(305 mm x 305 mm)*	-
KB 12 SN 305 508 A1	12" x 20" *(305 mm x 508 mm)*	1
KB 12 SN 305 711 A1	12" x 28" *(305 mm x 711 mm)*	1

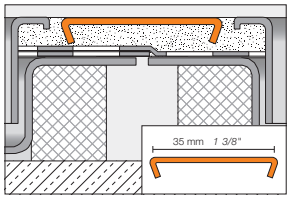
[1] Depth = 3-1/2" *(8.9 cm)*



SHOWERPROFILE-S



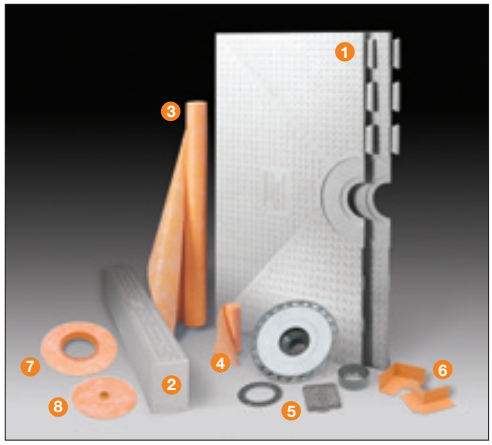
SHOWERPROFILE-R



KERDI-LINE-FC

Schluter-Systems Shower Profiles

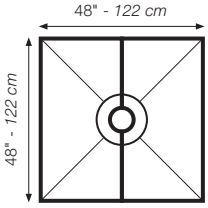
SHOWERPROFILE-S tapered edging profile				
Item No.	**H**	**H_1**	**H_2**	**Length**
SPSA 50 EB/120	3/16" *(5 mm)*	1/4" *(6 mm)*	1-3/16" *(30 mm)*	47-1/4" *(1.2 m)*
SPSA 50 EB/160	3/16" *(5 mm)*	1/4" *(6 mm)*	1-1/2" *(38 mm)*	63" *(1.6 m)*
SPSA 50 EB/200	3/16" *(5 mm)*	1/4" *(6 mm)*	1-13/16" *(46 mm)*	78-3/4" *(2 m)*
SPSB 100 EB/120	3/8" *(10 mm)*	3/8" *(10 mm)*	1-11/32" *(34 mm)*	47-1/4" *(1.2 m)*
SPSB 100 EB/160	3/8" *(10 mm)*	3/8" *(10 mm)*	1-1/2" *(38 mm)*	63" *(1.6 m)*
SPSB 100 EB/200	3/8" *(10 mm)*	3/8" *(10 mm)*	2" *(50 mm)*	78-3/4" *(2 m)*
SPSB 125 EB/120	1/2" *(12.5 mm)*	3/8" *(10 mm)*	1-11/32" *(34 mm)*	47-1/4" *(1.2 m)*
SPSB 125 EB/160	1/2" *(12.5 mm)*	3/8" *(10 mm)*	1-1/2" *(38 mm)*	63" *(1.6 m)*
SPSB 125 EB/200	1/2" *(12.5 mm)*	3/8" *(10 mm)*	2" *(50 mm)*	78-3/4" *(2 m)*
SHOWERPROFILE-R edging profile				
Item No.	**Height**			**Length**
SPRA 23 EB/100	29/32" - 1-3/8" *(23 mm - 35 mm)*			39" *(1 m)*
SPRA 23 EB/140	29/32" - 1-3/8" *(23 mm - 35 mm)*			55" *(1.4 m)*
SPRA 33 EB/100	1-5/16" - 1-25/32" *(33 mm - 45 mm)*			39" *(1 m)*
SPRA 33 EB/140	1-5/16" - 1-25/32" *(33 mm - 45 mm)*			55" *(1.4 m)*
KERDI-LINE-FC cover plate				
Item No.	**Width**			
V / KLEB 35	1-3/8" *(35 mm)*			

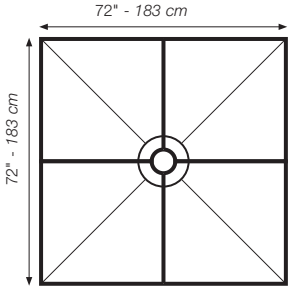


Schluter®-KERDI-SHOWER-KIT

The **KERDI-SHOWER-KIT** is an all-inclusive package containing the components required to create a watertight shower assembly without a mortar bed.

Schluter®-KERDI-SHOWER-KIT				
Includes	Description	Quantity		
		48" x 48"	72" x 72"	32" x 60"
1 KERDI-SHOWER-ST	Shower Tray	1	1	1
2 KERDI-SHOWER-SC	Shower Curb 48" x 6" x 4-1/2"	1	2	2
3 KERDI 10 M	Waterproofing membrane 3' 3" x 33'			1
KERDI 12 M	Waterproofing membrane 3' 3" x 39' 4"	1		
KERDI 20 M	Waterproofing membrane 3' 3" x 65' 7"		1	
4 KERDI-BAND	Waterproofing strip 5" x 33'	1	2	1
5 KERDI-DRAIN	Drain, with integrated bonding flange with 2" *(50 mm)* outlet	1	1	1
6 KERDI-KERECK-F	Preformed waterproofing corners	4 inside and 2 outside		
7 KERDI-SEAL-PS	Pipe seal (3/4")	1		
8 KERDI-SEAL-MV	Mixing valve seal	1		



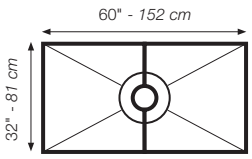


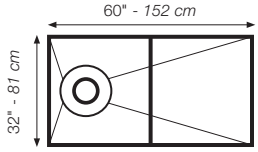
48" x 48" *(122 cm x 122 cm)* Kit
Select material for drain (ABS or PVC) and grate finish

Item No.	Drain Material	Grate finish
KK122ABSECS	ABS	Tileable
KK122ABSE	ABS	Stainless steel 304 (1.4301 = V2A)
KK122ABSEOB	ABS	Oil-rubbed bronze stainless steel
KK122ABSATGB	ABS	Brushed nickel anodized aluminum
KK122ABSAKGB	ABS	Brushed copper/bronze anod. alu.
KK122ABSAMGB	ABS	Brushed brass anodized aluminum
KK122PVCECS	PVC	Tileable
KK122PVCE	PVC	Stainless steel 304 (1.4301 = V2A)
KK122PVCEOB	PVC	Oil-rubbed bronze stainless steel
KK122PVCATGB	PVC	Brushed nickel anodized aluminum
KK122PVCAKGB	PVC	Brushed copper/bronze anod. alu.
KK122PVCAMGB	PVC	Brushed brass anodized aluminum

72" x 72" *(183 cm x 183 cm)* Kit
Select material for drain (ABS or PVC) and grate finish

Item No.	Drain Material	Grate finish
KK183ABSECS	ABS	Tileable
KK183ABSE	ABS	Stainless steel 304 (1.4301 = V2A)
KK183ABSEOB	ABS	Oil-rubbed bronze stainless steel
KK183ABSATGB	ABS	Brushed nickel anodized aluminum
KK183ABSAKGB	ABS	Brushed copper/bronze anod. alu.
KK183ABSAMGB	ABS	Brushed brass anodized aluminum
KK183PVCECS	PVC	Tileable
KK183PVCE	PVC	Stainless steel 304 (1.4301 = V2A)
KK183PVCEOB	PVC	Oil-rubbed bronze stainless steel
KK183PVCATGB	PVC	Brushed nickel anodized aluminum
KK183PVCAKGB	PVC	Brushed copper/bronze anod. alu.
KK183PVCAMGB	PVC	Brushed brass anodized aluminum





Note: Tray features off-center drain placement: 10" *(25.4 cm)* o.c. from end of tray.

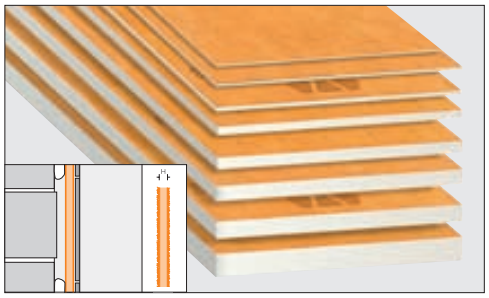
32" x 60" *(81 cm x 152 cm)* Kit
Select material for drain (ABS or PVC) and grate finish

Item No.	Drain Material	Grate finish
KK81152ABSECS	ABS	Tileable
KK81152ABSE	ABS	Stainless steel 304 (1.4301 = V2A)
KK81152ABSEOB	ABS	Oil-rubbed bronze stainless steel
KK81152ABSATGB	ABS	Brushed nickel anodized aluminum
KK81152ABSAKGB	ABS	Brushed copper/bronze anod. alu.
KK81152ABSAMGB	ABS	Brushed brass anodized aluminum
KK81152PVCECS	PVC	Tileable
KK81152PVCE	PVC	Stainless steel 304 (1.4301 = V2A)
KK81152PVCEOB	PVC	Oil-rubbed bronze stainless steel
KK81152PVCATGB	PVC	Brushed nickel anodized aluminum
KK81152PVCAKGB	PVC	Brushed copper/bronze anod. alu.
KK81152PVCAMGB	PVC	Brushed brass anodized aluminum

32" x 60" *(81 cm x 152 cm)* Kit
Select material for drain (ABS or PVC) and grate finish

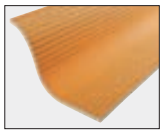
Item No.	Drain Material	Grate finish
KKB81152ABSECS	ABS	Tileable
KKB81152ABSE	ABS	Stainless steel 304 (1.4301 = V2A)
KKB81152ABSEOB	ABS	Oil-rubbed bronze stainless steel
KKB81152ABSATGB	ABS	Brushed nickel anodized aluminum
KKB81152ABSAKGB	ABS	Brushed copper/bronze anod. alu.
KKB81152ABSAMGB	ABS	Brushed brass anodized aluminum
KKB81152PVCECS	PVC	Tileable
KKB81152PVCE	PVC	Stainless steel 304 (1.4301 = V2A)
KKB81152PVCEOB	PVC	Oil-rubbed bronze stainless steel
KKB81152PVCATGB	PVC	Brushed nickel anodized aluminum
KKB81152PVCAKGB	PVC	Brushed copper/bronze anod. alu.
KKB81152PVCAMGB	PVC	Brushed brass anodized aluminum

Note: The KERDI-SHOWER-KIT is also available without the drain. This kit contains the same components as the complete KERDI-SHOWER-KIT, except the KERDI-DRAIN which must be purchased separately. This kit allows you to select the drain that is best suited to your application (i.e. KERDI-DRAIN with 3" outlet or KERDI-DRAIN with adaptor ring).

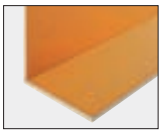


Additional panels and accessories

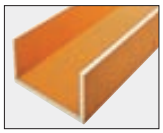
Please refer to our Illustrated Price List for details.



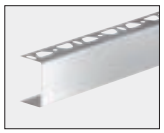
Grooved panels



L-shaped panels

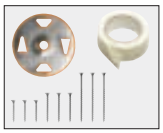


U-shaped panels



Profiles

Anchors



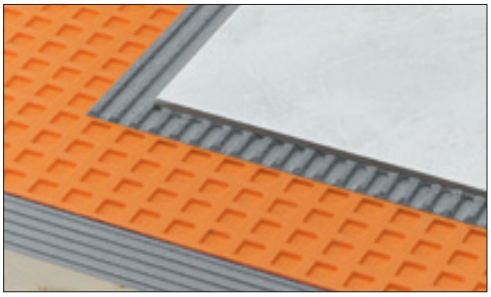
Washers, screws and adhesive tape

Schluter®-KERDI-BOARD

KERDI-BOARD is a multifunctional tile substrate and building panel, which can also be used for creating bonded waterproofing assemblies with tile coverings. It consists of an extruded polystyrene foam panel, with a special reinforcement material on both sides and fleece webbing for effective anchoring in thin-set mortar.

The boards are simply cut to size with a utility knife. The gridlines, which are printed on the surface, are helpful for neat and quick cuts and installation. Tiles can be installed directly over KERDI-BOARD using the thin-set method.

Schluter®-KERDI-BOARD	
Substrate and building panel	
H =	**Item No.**
Panel dimension: 32" x 48" *(81 cm x 122 cm)*	
1/2" *(12.5 mm)*	KB 12 1220 812
Panel dimension: 48" x 64" *(122 cm x 162.5 cm)*	
3/16" *(5 mm)*	KB 5 1220 1625
3/8" *(9 mm)*	KB 9 1220 1625
1/2" *(12.5 mm)*	KB 12 1220 1625
Panel dimension: 48" x 96" *(122 cm x 244 cm)*	
3/16" *(5 mm)*	KB 5 1220 2440
3/8" *(9 mm)*	KB 9 1220 2440
1/2" *(12.5 mm)*	KB 12 1220 2440
5/8" *(15 mm)*	KB 15 1220 2440
Panel dimension: 24-1/2" x 96" *(62.5 cm x 244 cm)*	
3/4" *(19 mm)*	KB 19 625 2440
1" *(25 mm)*	KB 25 625 2440
1-1/2" *(38 mm)*	KB 38 625 2440
2" *(50 mm)*	KB 50 625 2440
Panel dimension: 48" x 120" *(122 cm x 305 cm)*	
5/8" *(15 mm)*	KB 15 1220 3050



DITRA and DITRA-XL are listed by cUPC® and evaluated by ICC-ES (Report Nos. ESR-2467 and PMG-1204).

Schluter®-DITRA

DITRA is a pressure-stable polyethylene uncoupling membrane, vacuum-formed in a cutback grid design, with an anchoring fleece laminated to its underside. DITRA is 1/8" *(3 mm)* in height. **DITRA-XL** is 5/16" *(7 mm)* in height.

Schluter®-DITRA	
Item No.	**Packaging**
DITRA uncoupling and waterproofing membrane (1/8" - *3 mm* thick)	
DITRA 5M	3' 3" x 16' 5" = 54 ft² *(1 m x 5 m = 5 m²)*
DITRA 150	3' 3" x 45' 9" = 150 ft² *(1 m x 14 m = 14 m²)*
DITRA 30	3' 3" x 98' 5" = 323 ft² *(1 m x 30 m = 30 m²)*
DITRA-XL uncoupling and waterproofing membrane (5/16" - *7 mm* thick)	
DITRA-XL/175	3' 3" x 53' 3" = 175 ft² *(1 m x 16.25 m = 16.25 m²)*

Schluter®-DITRA-TROWEL and Schluter®-KERDI-TROWEL

Used to install DITRA and KERDI membranes. The **DITRA-TROWEL** features an 11/64" x 11/64" *(4.5 mm x 4.5 mm)* square-notched design while the **KERDI-TROWEL** features a 1/8" x 1/8" *(3 mm x 3 mm)* square-notched design.

Schluter®-DITRA-TROWEL and Schluter®-KERDI-TROWEL		
Trowels used to install Schluter®-DITRA and Schluter®-KERDI membranes		
Item No.	**Notch Size**	**Packaging**
TRL-DIT6	11/64" x 11/64" *(4.5 mm x 4.5 mm)*	6 units
TRL-KER6	1/8" x 1/8" *(3 mm x 3 mm)*	6 units

WARRANTY

Schluter®-Shower System 10-Year Limited Warranty

COVERAGE AND CONDITIONS: Subject to the conditions and limitations as stated hereinafter, **Schluter-Systems*** warrants that the **Schluter®-Shower System** (the "Products")** will meet all composition and performance criteria for a period of ten (10) years from the date of purchase only when the Products are used and installed in accordance with the terms and conditions of the Schluter®-Shower System Installation Handbook and industry standard guidelines that are not in conflict with the Handbook in effect at the time of installation. Further, efflorescence is considered to be a natural occurrence with cementitious materials and is therefore not considered to be a defective condition and is not covered by this warranty. It is the responsibility of the owner/builder/installer to ensure the suitability of all building materials and all associated building materials for the owner's intended use. It is recommended that the owner consult with an experienced and professional installer.

RESOLUTION: If the Products fail to meet this warranty, then the owner's exclusive remedy and the sole obligation of Schluter-Systems, at its election, shall be to a) reinstall or replace the failed portion of the tile assembly or b) pay an amount not to exceed the original square foot cost of the installation of the tile assembly verified to be defective. Tile assembly is defined to include all Schluter®-KERDI products, non-reusable tile surfaces, and the appropriate setting and grouting materials. Further, due to conditions beyond the control of Schluter-Systems (e.g., color and shade availability, discontinuation, normal wear and tear), Schluter-Systems cannot guarantee or warrant an exact match to the specific tile, stone, or other covering materials used in the installation. In such events, substantially similar materials may be substituted.

DISCLAIMER: THERE ARE NO WARRANTIES BEYOND THIS EXPRESSED WARRANTY AS STATED ABOVE. ALL OTHER WARRANTIES, REPRESENTATIONS OR CONDITIONS, EXPRESSED OR IMPLIED, ARE DISCLAIMED AND EXCLUDED, INCLUDING WARRANTIES, REPRESENTATIONS OR CONDITIONS OF **MERCHANTABILITY** OR FITNESS FOR A PARTICULAR PURPOSE ARISING BY STATUTE OR OTHERWISE BY LAW OR FROM A COURSE OF DEALING OR USAGE OF TRADE. SCHLUTER-SYSTEMS EXCLUDES AND IN NO EVENT SHALL HAVE ANY LIABILITY FOR LOST PROFITS OR ANY OTHER INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR OTHERWISE CONNECTED TO FAILURE OF THE PRODUCTS, NOR MISUSE OF THE PRODUCTS OR FAILURE TO PROPERLY MAINTAIN THE SHOWER OR BATHTUB SURROUND. REGARDLESS OF ANY STRICT LIABILITY, ACTIVE OR PASSIVE NEGLIGENCE OF SCHLUTER-SYSTEMS, AND REGARDLESS OF THE LEGAL THEORY (CONTRACT OR TORT OR EXTRA-CONTRACTUAL OR OTHER), NOR FROM ACTS OF WAR, TERRORISM, FAULTY AND NEGLIGENT PENETRATION OF THE SYSTEM, FIRES, EXPLOSIONS, ACTS OF GOD, INTENTIONAL ACTS OF DESTRUCTION OR ANY LOSSES DUE TO STRUCTURAL FAILURE OR OTHER CAUSES UNRELATED TO THE PRODUCTS OR DELAYS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS WARRANTY IS GIVEN IN LIEU OF ANY OTHER WARRANTY EXPRESSED OR IMPLIED. THE REMEDIES CONTAINED HEREIN ARE THE ONLY REMEDIES AVAILABLE FOR BREACH OF THIS WARRANTY. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS; SOME STATES AND PROVINCES DO NOT ALLOW DISCLAIMERS OR OTHER RESTRICTIONS OF IMPLIED WARRANTIES, SO SOME OF THE ABOVE DISCLAIMERS MAY NOT APPLY TO YOU.

TRANSFERABILITY: This Limited Warranty extends ONLY to the original end user (defined as original intended owner and user of the property/unit in which the installation is incorporated - herein referred to as "Owner") and is not transferable or assignable, unless approved in writing by the Technical Director or an Officer of Schluter-Systems or otherwise prohibited by specific state or provincial law.

MODIFICATIONS TO WARRANTY: No changes or modification of any terms or conditions of this warranty are allowed unless authorized by written agreement and signed by the Technical Director or an Officer of Schluter-Systems.

EFFECTIVE DATE: This warranty shall supersede and replace any and all prior oral or written warranties, agreements, or other such representations made by or on behalf of Schluter-Systems relative to the Products or the application of the Products and shall apply to any installation occurring on or after January 1, 2013.

CLAIMS ON THIS LIMITED WARRANTY: To make a claim under this Limited Warranty, the Owner must provide Schluter-Systems with written notice within 30 days of any alleged defect in the Products covered by this Limited Warranty, together with date and proof of purchase of the Products, proof of the costs of the original installation and name and address of all installers, failing which this Limited Warranty shall be of no legal effect. Schluter-Systems reserves the right at its election and as a condition of this Limited Warranty to inspect the alleged failed and defective condition.

All U.S. Claims shall be sent to:

Schluter Systems L.P.
Attn: Warranty Claims Dept.
194 Pleasant Ridge Road
Plattsburgh, NY 12901-5841

All Canadian Claims shall be sent to:

Schluter Systems (Canada), Inc.
Attn: Warranty Claims Dept.
21100 chemin Ste-Marie
Ste-Anne-de-Bellevue, QC H9X 3Y8

*For the purpose of this warranty **Schluter Systems, L.P.** shall provide the warranty for all products for end users located in the United States, and **Schluter Systems (Canada) Inc.** shall provide the warranty for all products for end users located in Canada. This warranty is limited to sales of the Products made in and intended for use in the United States and Canada.

****Schluter®-Shower System (the "Products"):** The Products are defined to include all Schluter®-KERDI products referred to in the Handbook and used in the integrated Schluter®-Shower System.

Schluter Systems

Schluter Systems L.P. • 194 Pleasant Ridge Road, Plattsburgh, NY • 12901-5841 • Tel.: 800-472-4588 • Fax: 800-477-9783
Schluter Systems (Canada) Inc. • 21100 chemin Ste-Marie, Ste-Anne-de-Bellevue, QC H9X 3Y8 • Tel.: 800-667-8746 • Fax: 877-667-2410
info@schluter.com

www.schluter.com

552420 Date: 11/2013 © 2013 Schluter Systems L.P. All product names are registered trademarks of Schluter Systems K.G. and licensed to Schluter Systems L.P.